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要約書 1

【プルーフの要否】 要



【書類名】 明細書

【発明の名称】 ドメインを形成するヒト由来のタンパク質またはその用途 【特許請求の範囲】

【請求項1】

配列番号1に記載されたアミノ酸配列からなるタンパク質又はその塩。

【請求項2】

配列番号3、5、7、9のいずれか一つに記載されたアミノ酸配列からなるタンパク質又はそれらの塩。

【請求項3】

配列番号7に記載されたアミノ酸配列のN末端から0個~10個のアミノ酸残基が欠損し、更にC末端から0個~5個のアミノ酸残基が欠損したアミノ酸配列を有し、アミノ酸残基数が92~106であるタンパク質又はそれらの塩。

【請求項4】

請求項1、2又は3に記載のタンパク質のアミノ酸配列において、1若しくは数個のアミノ酸が欠失、置換又は付加されたアミノ酸配列からなり、請求項1、2又は3に記載のタンパク質のいずれかと実質的に同一の機能を有するタンパク質又はそれらの塩。

【請求項5】

請求項1~請求項4に記載されたタンパク質のいずれか1つのタンパク質のアミノ酸配列をコードするポリヌクレオチドを含有するポリヌクレオチド。

【請求項6】

配列番号2、4、6、8、10のいずれか一つに記載された塩基配列を含有する請求項5に記載のポリヌクレオチド。

【請求項7】

請求項5又は請求項6に記載のポリヌクレオチドを含有する発現系。

【請求項8】

請求項5又は請求項6に記載のポリヌクレオチドを含有する組換えベクター。

【請求項9】

請求項8に記載の組換えベクターで形質転換させた形質転換体。



【請求項10】

請求項1~請求項4のいずれか一つに記載のタンパク質に対する抗体。

【請求項11】

請求項10に記載の抗体を含む医薬。

【請求項12】

請求項9に記載の形質転換体を培養し、タンパク質を生成させる工程を含む、 請求項1~請求項4のいずれか一つに記載のタンパク質またはそれらの塩の製造 方法。

【請求項13】

無細胞タンパク質合成系を用いることを特徴とする請求項1~請求項4のいず れか一つに記載のタンパク質又はそれらの塩の製造方法。

【請求項14】

請求項1~請求項4のいずれか一つに記載のタンパク質と候補物質とを接触させる工程と、前記タンパク質と候補物質とが相互作用をするかどうかを確認する工程とを含む請求項1~請求項4のいずれか一つに記載のタンパク質またはそれらの塩及び/又は請求項1~請求項4のいずれか一つに記載のタンパク質のアミノ酸配列を含んだ天然に存在するタンパク質又はそれらの塩と相互作用する物質のスクリーニング方法。

【請求項15】

請求項10に記載の抗体を用いた請求項1~請求項4のいずれか一つに記載の タンパク質又はそれらの塩の定量方法。

【請求項16】

請求項15に記載の定量方法を用いた、請求項1~請求項4のいずれか一つに 記載のタンパク質またはそれらの塩と相互作用をする物質のスクリーニング方法

【請求項17】

請求項1~請求項4のいずれか一つに記載のタンパク質を細胞内で発現させる 工程と、当該細胞内における遺伝子の発現状態を調べる工程と、を含む、請求項 1~請求項4のいずれか一つに記載のタンパク質と関連する遺伝子を特定する方



法。

【請求項18】

請求項1~請求項4のいずれか一つに記載のタンパク質の立体構造に関する情報を用いて、前記タンパク質の活性部位を決定する工程と、当該活性部位と相互作用する化合物をコンピュータ上で特定する工程とを含む請求項1~請求項4のいずれか一つに記載のタンパク質またはそれらの塩及び/又は請求項1~請求項4のいずれか一つに記載のタンパク質のアミノ酸配列を含んだ天然に存在するタンパク質又はそれらの塩と相互作用する化合物のスクリーニング方法。

【請求項19】

前記タンパク質の立体構造に関する情報が、立体構造座標表1~20のいずれかに記載の立体構造情報のうちアミノ酸番号8~98番目のアミノ酸残基からなるタンパク質の立体構造情報である請求項18に記載のスクリーニング方法。

【請求項20】

立体構造座標表1に記載の立体構造情報のうち、(Val26, Lys27, Glu47, Arg 67, Lys83, Ser86)のアミノ酸残基に相当する部分の情報を用いる請求項18に記載のスクリーニング方法。

【請求項21】

請求項18~請求項20のいずれか一つに記載されたスクリーニング方法によって、特定された活性部位と相互作用する化合物を候補化合物として用意し、

請求項1~請求項4のいずれか一つに記載されたタンパク質と候補物質とを接触させる工程と、前記タンパク質と候補物質とが相互作用をするかどうかを確認する工程とを含む請求項1~請求項4のいずれか一つに記載されたタンパク質またはそれらの塩及び/又は請求項1~請求項4のいずれか一つに記載のタンパク質のアミノ酸配列を含んだ天然に存在するタンパク質又はそれらの塩と相互作用する物質のスクリーニング方法。

【請求項22】

立体構造座標表 1~20のいずれかに記載されたタンパク質の立体構造のうち アミノ酸番号 8~98番目のアミノ酸残基のタンパク質の立体構造情報に関する 情報を用いて、請求項 1~4のいずれか一つに記載のタンパク質のアミノ酸配列



と30%以上の相同性を有するアミノ酸配列を有する構造未知タンパク質のホモロジーモデリングを行い、前記構造未知タンパク質の立体構造を推定する方法。

【発明の詳細な説明】

[0001]

【発明の属する技術分野】

本発明は、ドメインを形成するヒト由来のタンパク質、それを含有するポリヌクレオチド、そのタンパク質に対する抗体、それらを用いた活性化合物のスクリーニング方法などに関する。

[0002]

【従来の技術】

近年、ヒトゲノム計画に代表されるさまざまなモデル生物のゲノム塩基配列が 次々に解読されている。これらのゲノム配列情報から抽出される遺伝子について 、個々の遺伝子にコードされたタンパク質の立体構造を体系的に明らかにし、構 造と機能の関係を明確にしようとする"構造ゲノム科学"が、新たな研究分野と して急速に立ち上がり、世界各国で大規模なプロジェクトが進行している。

この構造ゲノム科学において、解析対象となるタンパク質数は10万種類に及ぶとも見られており、その全立体構造の決定を目標とするのは現在の技術レベルでは未だ現実的ではない。

[0003]

そこで、まず対象タンパク質を妥当な数に絞り、「代表的な構造」を選ぶことが必要である。網羅的な立体構造解析は、例えばa)対象とするタンパク質のセットとして比較的小さいものに特定する、b)超好熱性古細菌、高度好熱菌、マイコプラズマ等のゲノムサイズの小さい生物種を特定する、或いはc)シグナル伝達や遺伝子発現に関与するタンパク質、疾病関連遺伝子産物タンパク質等、生命現象を特定する等、様々な視点から解析対象を選定したプロジェクトが開始されている。

このような研究の流れにおいては、最初のステップとして、約1万種類とも推測されているファミリー(アミノ酸配列が約30~35%の相同性を有するものをファミリーとして分類)のすべてについて代表的な立体構造を1つ以上決定するこ



とを1つの目標としている。ある代表的な立体構造(基本構造)があれば、同じファミリーに属する他のタンパク質の構造も、ホモロジーに基づくモデリングにより類推することが可能となる。

このプロジェクトの中で、機能ドメインの三次元構造のタイプ、又はトポロジー(基本構造:フォールド)に注目し、タンパク質の基本構造単位で機能との相関を解明しようとする研究が注目されている。

[0004]

複数のドメインを有するタンパク質の場合、機能ドメインがモジュールのように組み合わさってできているため、あるドメインがさまざまなタンパク質のなかに違ったドメインとの組み合わせで現れることがしばしば見られる。また、一次配列上のホモロジーが検出されなくても同じ基本構造をもつことはめずらしくない。従って、基本構造の数はタンパク質のファミリーの数よりもかなり少ないはずであり、それぞれの基本構造が分子機能と関連付けられると期待される。この基本構造の数は、約1万~2万種類と予測されており、このオーダーの解析対象であれば、全対象タンパク質の立体構造を決定することも十分可能になる。

[0005]

このようにして得られるタンパク質の立体構造と機能に関する情報は、生体機能の解明に新たな知見を与え、医薬品等の開発(例えば、ラショナルドラックデザインやバーチャルスクリーニングによる開発)を飛躍的に発展させるものであり、産業界においても非常に有益である。

[0006]

【発明が解決しようとする課題】

しかしながら、タンパク質の立体構造解析には、多くの時間と労力、費用を要するのが実情である。網羅的且つ体系的な構造解析を目指す構造ゲノム科学研究においては、構造解析のハイスループット化を図ることが重要な課題である。

[0007]

タンパク質の立体構造解析には主にNMR法およびX線結晶構造解析法が使用されている。

タンパク質をNMRを用いて立体構造解析を行うためには、サンプルの分子量



は約20000以下(アミノ酸残基で約200個以下)であることが好ましい。X線解析によって立体構造解析を行う場合にも、結晶作成のためにタンパク質の性状に制限がある。

構造解析に適したタンパク質を得るためにタンパク質をランダムに分割すると、切断する部位が β シートや α へリックス構造をとるアミノ酸配列中にあると、多くのタンパク質は生理的に意味のある構造が変形したり、ひも状になり構造を取らなかったり、あるいは凝集することになる。このように本来生体内でとる構造を有しないタンパク質の立体構造を解析しても意味がない。したがって、立体構造の解析に意味のあるドメインを形成するタンパク質を取得することが望まれる。

構造解析に適した、ドメインを有するタンパク質(以下、「ドメインを形成するタンパク質」という)を発現させるためには、ドメイン境界の位置に関する情報が必要である。一般に、このドメイン境界はアミノ酸配列の相同性などを手がかりにして予測される。このようにして予測されたドメイン領域のアミノ酸配列に基づいてタンパク質の発現を行っても実際に構造をとる(フォールドする)ドメインを形成するタンパク質が得られる確率は非常に低く、ドメイン発現が構造解析のボトルネックの1つとなっている。

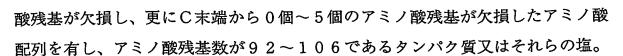
本発明の対象であるCAP-Gly様ドメインを形成するタンパク質について も、これまでは取得されておらず、またその構造情報も未知であり、これらを創 薬等に利用することはできなかった。

[0008]

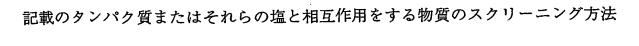
【課題を解決するための手段】

本発明は、このような状況に鑑みてなされたもので、下記のようなタンパク質、その製造方法、それをコードするポリヌクレオチド、そのタンパク質に対する 抗体、それらを用いるスクリーニング方法などを提供する。

- (1) 配列番号1に記載されたアミノ酸配列からなるタンパク質又はその塩。
- (2)配列番号3、5、7、9のいずれか一つに記載されたアミノ酸配列からなるタンパク質又はそれらの塩。
 - (3) 配列番号7に記載されたアミノ酸配列のN末端から0個~10個のアミノ



- (4) (1)、(2)又は(3)に記載のタンパク質のアミノ酸配列において、 1若しくは数個のアミノ酸が欠失、置換又は付加されたアミノ酸配列からなり、
- (1)、(2)又は(3)に記載のタンパク質と実質的に同一の機能を有するタンパク質又はそれらの塩。
- (5) (1) \sim (4) に記載されたタンパク質のいずれか1つのタンパク質のアミノ酸配列をコードするポリヌクレオチドを含有するポリヌクレオチド。
- (6) 配列番号 2 、4 、6 、8 、1 0 のいずれか一つに記載された塩基配列を含有する(5) に記載のポリヌクレオチド。
 - (7) (5) 又は(6) に記載のポリヌクレオチドを含有する発現系。
 - (8) (5) 又は(6) に記載のポリヌクレオチドを含有する組換えベクター。
 - (9) (8) に記載の組換えベクターで形質転換させた形質転換体。
 - $(10)(1) \sim (4)$ のいずれか一つに記載のタンパク質に対する抗体。
 - (11) (10) に記載の抗体を含む医薬。
- (12) (9) に記載の形質転換体を培養し、タンパク質を生成させる工程を含む、(1) \sim (4) のいずれか一つに記載のタンパク質またはそれらの塩の製造方法。
- (13)無細胞タンパク質合成系を用いることを特徴とする(1)~(4)のいずれか一つに記載のタンパク質又はそれらの塩の製造方法。
- (14) (1) \sim (4) のいずれか一つに記載のタンパク質と候補物質とを接触させる工程と、前記タンパク質と候補物質とが相互作用をするかどうかを確認する工程とを含む (1) \sim (4) のいずれか一つに記載のタンパク質またはそれらの塩及び/又は (1) \sim (4) のいずれか一つに記載のタンパク質のアミノ酸配列を含んだ天然に存在するタンパク質又はそれらの塩と相互作用する物質のスクリーニング方法。
- (15) (10) に記載の抗体を用いた(1) \sim (4) のいずれか一つに記載のタンパク質又はそれらの塩の定量方法。
- (16) (15) に記載の定量方法を用いた、(1)~(4) のいずれか一つに



- (17) (1) \sim (4) のいずれか一つに記載のタンパク質を細胞内で発現させる工程と、当該細胞内における遺伝子の発現状態を調べる工程と、を含む、(1) \sim (4) のいずれか一つに記載のタンパク質と関連する遺伝子を特定する方法
- (18) (1) \sim (4) のいずれか一つに記載のタンパク質の立体構造に関する情報を用いて、前記タンパク質の活性部位を決定する工程と、当該活性部位と相互作用する化合物をコンピュータ上で特定する工程とを含む(1) \sim (4) のいずれか一つに記載のタンパク質またはそれらの塩及び/又は(1) \sim (4) のいずれか一つに記載のタンパク質のアミノ酸配列を含んだ天然に存在するタンパク質又はそれらの塩と相互作用する化合物のスクリーニング方法。
- (19) 前記タンパク質の立体構造に関する情報が、立体構造座標表1~20のいずれかに記載の立体構造情報のうちアミノ酸番号8~98番目のアミノ酸残基からなるタンパク質の立体構造情報である(18)に記載のスクリーニング方法
- (20)立体構造座標表1に記載の立体構造情報のうち、(Val26, Lys27, Glu4 7, Arg67, Lys83, Ser86)のアミノ酸残基に相当する部分の情報を用いる(18)に記載のスクリーニング方法。
- (21) (18) ~ (20) のいずれか一つに記載されたスクリーニング方法によって、特定された活性部位と相互作用する化合物を候補化合物として用意し、
- $(1) \sim (4)$ のいずれか一つに記載されたタンパク質と候補物質とを接触させる工程と、前記タンパク質と候補物質とが相互作用をするかどうかを確認する工程とを含む $(1) \sim (4)$ のいずれか一つに記載されたタンパク質またはその塩及び/又は $(1) \sim (4)$ のいずれか一つに記載のタンパク質のアミノ酸配列を含んだ天然に存在するタンパク質又はそれらの塩と相互作用する物質のスクリーニング方法。
- (22) 立体構造座標表 1~20のいずれかに記載されたタンパク質の立体構造のうちアミノ酸番号8~98番目のアミノ酸残基のタンパク質の立体構造情報に



関する情報を用いて、(1)~(4)のいずれか一つに記載のタンパク質のアミノ酸配列と30%以上の相同性を有するアミノ酸配列を有する構造未知タンパク質のホモロジーモデリングを行い、前記構造未知タンパク質の立体構造を推定する方法。

[0009]

【発明の実施の形態】

(本発明のタンパク質)

本発明のタンパク質は、立体構造をもったドメインを形成するタンパク質である。本発明は、より具体的には、配列番号1、3、5、7、9のいずれか一つに記載されるCAP-Gly様ドメインタンパク質、又は配列番号7に記載されたアミノ酸配列のN末端から0個~10個のアミノ酸残基が欠損し、更にC末端から0個~5個のアミノ酸残基が欠損したアミノ酸配列を有し、アミノ酸残基数が92~106であるタンパク質(すなわち、配列番号1のアミノ酸配列のN末端に0~10個、C末端に0~5個のアミノ酸残基を付加したタンパク質)に関する。以下、本発明のタンパク質の機能などについて説明する。

[0010]

(CAP-Glyドメイン)

CAP-Glyは、cytoskeletal-associated-protein-glycine-conserved domain の略であり、細胞内小器官や染色体を細胞内の微小管に結合する役割を果たすタンパク質を構成する。CAP-Glyドメインは保存性の高い、約42残基からなるグリシンに富んだ領域を含む [Riehemann K., Sorg C. Sequence homologies between four cytoskeleton-associated proteins. Trends Biochem. Sci. 18: 82-83(1993)]。このドメインを含むタンパク質としては、細胞内小胞体と微小管を接続する中間径フィラメントに関連する160 kD のタンパク質のレスチン (restin) (細胞質のリンカータンパク質170 または CLIP-170とも呼ばれる)、脊椎動物のダイナクチン [150 kD のダイニン関連ポリペプチド (DAP)]、アクティベータIの主要な成分であるDrosophila glued複合体、有糸分裂期の微小管の形成・安定化および対合期における紡錘体融合に必要と考えられる酵母タンパク質BIK1、酵母タンパク質NIP100 (NIP80)、ヒトタンパク質CKAP1/TFCB、Schizosaccharomy



ces pombe タンパク質のalp11、C. elegans のタンパク質と推定されるF53F4.3 などが知られている。

なお、疾病との関連については、本発明のドメインを有するKIAA0849 タンパク質が細胞骨格にアソシエートするタンパク質であることから、細胞周期 制御に関係するドメインであり、特に各種の癌関連疾患の原因遺伝子であると予 測することが容易である。 事実、本発明の実施例に示すように、本発明のタンパク質を培養動物細胞に遺伝子導入する事によって、細胞は増殖抑制性の制御を うける。すなわち、本発明のタンパク質は癌抑制遺伝子産物としての機能を有している。癌抑制遺伝子に変異が起き増殖抑制活性が低下すると、癌が発病することはよく知られた事実である(田矢洋一ほか Bio Science 用語ライブラリー 癌遺伝子・癌抑制遺伝子 pl13-115 羊土社 2000)。網膜芽細胞腫を引き起こすレチノブラストーマ遺伝子が有名である(Weinberg RA. The retinoblastoma p rotein and cell cycle control. Cell 81, 323-330 1995)。

[0011]

殊に、本発明に利用した遺伝子(KIAA0849)は、ヒトのターバン腫瘍症候群の原因遺伝子であることが知られている(Nature Genet. 25,160-165 2000)。KIA A0849の発現するタンパク質のどのドメインが疾病の原因であるかは未だ不明であるが、本発明で例示した、本発明のタンパク質の癌抑制遺伝子的な機能を考えると、CAP-Gly様ドメインタンパク質が本疾病の原因であることが予測される。本発明の用途としては、少なくともターバン症候群に対する薬物のスクリーニングへの利用や、立体構造情報を利用しての薬物の最適化が想定される。すなわちCAP-Gly機能を有するドメインタンパク質と相互作用を有する化合物は各種癌関連疾患の予防・治療に有効に用いられ得る。

[0012]

また、本発明は、配列番号 1、 3 、 5 、 7 、 9 のいずれか一つに記載のいずれか一つに記載されたアミノ酸配列、又は配列番号 7 に記載されたアミノ酸配列のN末端から0 個 ~ 1 0 個のアミノ酸残基が欠損し、更にC 末端から0 個 ~ 5 個のアミノ酸残基が欠損したアミノ酸配列において、1 若しくは数個($1\sim 9$ 個、好ましくは $1\sim 5$ 個、さらに好ましくは $1\sim 2$ 個)のアミノ酸が欠失、置換又は付



加されたアミノ酸配列からなり、配列番号 1、3、5、7、9 配列番号 7 に記載されたアミノ酸配列のN末端から0 個~10 個のアミノ酸残基が欠損し、更にC末端から0 個~5 個のアミノ酸残基が欠損したアミノ酸配列のいずれか一つに記載されたアミノ酸配列からなるタンパク質のいずれかと実質的に同一の機能を有するタンパク質またはその塩も提供する。

なお、「本発明のタンパク質と実質的に同一の機能を有する」とは、本発明の タンパク質が有する分子機能などと同種の分子機能などを有することを意味する 。ここで、そのような分子機能としては、相互作用分子に対する結合活性、増殖 抑制活性等が挙げられる。

[0013]

(タンパク質の配列)

本発明のタンパク質の配列決定に関しては、i)公知のタンパク質配列情報に基づき、対象とする機能を有するドメイン領域を推定した後、ii)その推定ドメイン領域のアミノ酸配列を基本パターンとするドメイン候補配列パターンを用意し、iii)各配列パターン毎にタンパク質発現を行い、得られたドメインを形成するタンパク質の構造安定性評価により、良好な結果を示すものを目的ドメインとし、この目的ドメインのアミノ酸配列により各タンパク質を定義する。即ち、本発明のタンパク質は、全長タンパク質中のある一部分(目的とする機能を有する)を断片化してドメインを形成するタンパク質として発現させた時に、安定な構造を有するものを経験的に選別したものであり、ドメイン領域予測の段階では数100のオーダーで存在するドメイン候補が、種々の要因により絞り込まれて実際は10~数10のオーダーまで厳選される。従って、このように選別されたタンパク質を、立体構造解析に用いることにより、高精度で且つ信頼性に優れた構造解析を行うことが可能となる。

[0014]

(ドメイン領域の推定)

全長タンパク質中のドメイン領域を推定する手法としては、バイオインフォーマティクスなどの情報科学的な手法や計算科学的な手法 (特願2001 - 309434号明細書参照)、deleted DNAライブラリーとGFPの組み合わせ (特願2001 - 062703号



明細書参照)、プロテアーゼによる限定分解などの実験的な手法等、いずれも利用可能であり、特に限定されるものではなく、より精度の高い手法を用いることにより、ドメイン候補群から目的ドメインを選び出す作業効率が向上する。

[0015]

(ドメイン候補配列パターンの作製)

上記ドメイン候補配列パターンは、上述のように推定されたドメイン領域を基準にしてドメイン境界の位置をN末端側又はC末端側に伸ばしたり縮めたりすることにより作製される。

例えば、推定ドメイン領域のN末端側のドメイン境界におけるアミノ酸残基の位置より、N末端側に数から数十残基分伸長させた、又はC末端側に数から数十残基分短縮したおよそ数十種類の境界を新たに設け、それらの境界をN末端とするドメイン候補配列パターンが用意される。同様に、推定ドメイン領域のC末端側のドメイン境界においても数種類のドメイン境界を選定し、各境界をC末端とするドメイン候補配列パターンが作製される。

[0016]

(ドメイン境界の伸縮)

上記推定ドメイン領域のドメイン境界を伸縮させる方法としては、例えば上記ドメイン候補配列パターンに対応したcDNAを作成できるPCRプライマーを個々に合成して、PCRにより作成する方法が挙げられ、特に特願2001-201356号公報に示される2段階PCR法が好適である。

[0017]

(ドメイン候補配列パターンからの目的ドメインの抽出)

かかるドメイン候補配列パターンから実際に安定な立体構造を有する目的ドメインを選び出すためには、まず上述のようにして作製されたドメイン候補配列パターンの c DNAを用いてそれぞれタンパク合成を行う。

このドメイン候補配列パターンの発現系としては、特に限定されず、従来より 公知の発現系がいずれも使用可能である。

次に、得られたタンパク質が実際に安定な立体構造をとっているかどうかを判 定し、立体構造を有することが確認できたものを本発明におけるタンパク質とし



て採用する。

[0018]

このタンパク質の立体構造の安定性の指標としては、例えば合成されたドメインタンパク質が可溶性タンパク質としてSDSゲル電気泳動等により検出され、かつ適当な分子量相当な均一なバンドとして検出されるかという生化学的指標や、C末端側に融合させたGFPの蛍光強度、NMRスペクトル、CDスペクトルなどの分光学的手法等が挙げられる。

従来のタンパク質の配列決定の過程では、例えば①上記タンパク質合成で、目的とするドメインを形成するタンパク質が発現しない、或いは②発現はしたものの、凝集を起こす、溶解度が低い等の問題があった。本発明者らはこのような問題点を克服し本発明を完成させるに至った。

[0019]

(安定な立体構造を有することの確認)

上記NMRスペクトルにおいてドメインを形成するタンパク質のフォールディングの判定を以下に示す。

1Dスペクトルにおいて、ドメインを形成するタンパク質がフォールドしていない場合はVal、Leu、Ileなどのメチル基プロトンに由来するシグナルが0.8ppm付近に観測される。しかしフォールドしている場合はメチル基プロトンの環境が変化し、シグナルが高磁場側(0.7ppmから-0.5ppm付近)にシフトする。

1H-15NHSQCにける判定は、クロスピーク収束度合いとシグナル強度の均一性の評価を目視により行うことが挙げられる。すなわち、クロスピークが密集した場合は、立体構造を形成していない状態とし、逆に分散した場合は安定な立体構造を形成している状態として立体構造の安定性の評価を行う。

[0020]

(発現系)

本発明のタンパク質は、本発明の発現系を含む一般的な宿主細胞などから公知の手段を用いて製造することができる。このような発現系としては、本発明のポリヌクレオチドを含む発現系や、その発現系を含み公知の手段により製造された宿主細胞、遺伝子組換え技術を用いて本発明のタンパク質を製造し得る発現系、



本発明のタンパク質を製造し得る無細胞タンパク質合成系などが挙げられる。

[0021]

(ベクター)

本発明の(組換え)ベクターは、適当なベクターに本発明の遺伝子を連結(挿入)することにより得ることができる。本発明の遺伝子を挿入するためのベクターは、宿主中で複製可能なものであれば特に限定されず、例えば、プラスミド DNA、ファージ DNA等が挙げられる。

プラスミド DNAとしては、大腸菌由来のプラスミド(例えばpRSET、pBR322, pBR325, pUC118, pUC119, pUC18, pUC19等)、枯草菌由来のプラスミド(例えばpUB110, pTP5等)、酵母由来のプラスミド(例えばYEp13, YEp24, YCp50等)などが挙げられ、ファージDNAとしては λ ファージ(Charon4A、Charon21A、EMBL3、EMBL4、 λ gt10、 λ gt11、 λ ZAP等)が挙げられる。さらに、レトロウイルス又はワクシニアウイルスなどの動物ウイルス、バキュロウイルスなどの昆虫ウイルスペクターを用いることもできる。

ベクターに本発明の遺伝子を挿入するには、まず、精製されたDNAを適当な制限酵素で切断し、適当なベクター DNAの制限酵素部位又はマルチクローニングサイトに挿入してベクターに連結する方法などが採用される。

本発明の遺伝子は、その遺伝子の機能が発揮されるようにベクターに組み込まれることが必要である。そこで、本発明のベクターには、プロモーター、本発明の遺伝子のほか、所望によりエンハンサーなどのシスエレメント、スプライシングシグナル、ポリA付加シグナル、選択マーカー、リボソーム結合配列(SD配列)などを含有するものを連結することができる。なお、選択マーカーとしては、例えばジヒドロ葉酸還元酵素遺伝子、アンピシリン耐性遺伝子、ネオマイシン耐性遺伝子等が挙げられる。

[0022]

(形質転換体)

本発明の形質転換体は、本発明の組換えベクターを、目的遺伝子が発現し得るように宿主中に導入することにより得ることができる。ここで、宿主としては、本発明のDNAを発現できるものであれば特に限定されるものではない。例えば、



エッシェリヒア・コリ(Escherichia coli)等のエッシェリヒア属、バチルス・ズブチリス(Bacillus subtilis)等のバチルス属、シュードモナス・プチダ(Pseudo monas putida)等のシュードモナス属、リゾビウム・メリロティ(Rhizobium meli loti)等のリゾビウム属に属する細菌が挙げられる。また、サッカロミセス・セレビシエ(Saccharomyces cerevisiae)、シゾサッカロミセス・ポンベ(Schizosac charomyces pombe)等の酵母、さらにCOS細胞、CHO細胞等の動物細胞が挙げられる。あるいはSf9、Sf21等の昆虫細胞を用いることもできる。

[0023]

大腸菌等の細菌を宿主とする場合は、本発明の組換えベクターが該細菌中で自 律複製可能であると同時に、プロモーター、リボゾーム結合配列、本発明の遺伝 子、転写終結配列により構成されていることが好ましい。また、プロモーターを 制御する遺伝子が含まれていてもよい。

[0024]

大腸菌としては、例えばエッシェリヒア・コリ (Escherichia coli) K12、DH1などが挙げられ、枯草菌としては、例えばバチルス・ズブチリス (Bacillus subtilis) などが挙げられる。プロモーターとしては、大腸菌等の宿主中で発現できるものであればいずれを用いてもよい。例えばtrpプロモーター、lacプロモーター、 P_L プロモーター、 P_R プロモーターなどの、大腸菌やファージに由来するプロモーターが用いられる。tacプロモーターなどのように、人為的に設計改変されたプロモーターを用いてもよい。細菌への組換えベクターの導入方法としては、細菌にDNAを導入する方法であれば特に限定されるものではない。例えばカルシウムイオンを用いる方法 (Cohen, S.N. et al. (1972) Proc. Natl. Acad. Sci., USA 69、2110-2114)、エレクトロポレーション法等が挙げられる。

[0025]

酵母を宿主とする場合は、例えばサッカロミセス・セレビシエ(Saccharomyces cerevisiae)、シゾサッカロミセス・ポンベ(Schizosaccharomyces pombe)、ピヒア・パストリス(Pichia pastoris)などが用いられる。この場合、プロモーターとしては酵母中で発現できるものであれば特に限定されず、例えばgallプロモーター、gall0プロモーター、ヒートショックタンパク質プロモーター、MF α 1プロ



モーター、PHO5プロモーター、PGKプロモーター、GAPプロモーター、ADHプロモーター、AOX1プロモーター等が挙げられる。酵母への組換えベクターの導入方法としては、酵母にDNAを導入する方法であれば特に限定されず、例えばエレクトロポレーション法(Becker, D.M. et al. (1990) Methods. Enzymol., 194,182-187)、スフェロプラスト法(Hinnen, A. et al. (1978) Proc. Natl. Acad. Sci., USA 75, 1929-1933)、酢酸リチウム法(Itoh, H. (1983) J. Bacteriol. 153,163-168)等が挙げられる。

動物細胞を宿主とする場合は、サル細胞COS-7、Vero、チャイニーズハムスター卵巣細胞(CHO細胞)、マウスL細胞、ラットGH3、ヒトFL細胞などが用いられる。プロモーターとしてSR α プロモーター、SV40プロモーター、LTRプロモーター、CMVプロモーター等が用いられ、また、ヒトサイトメガロウイルスの初期遺伝子プロモーター等を用いてもよい。動物細胞への組換えベクターの導入方法としては、例えばエレクトロポレーション法、リン酸カルシウム法、リポフェクション法等が挙げられる。

[0026]

昆虫細胞を宿主とする場合は、Sf9細胞、Sf21細胞などが用いられる。昆虫細胞への組換えベクターの導入方法としては、例えばリン酸カルシウム法、リポフェクション法、エレクトロポレーション法などが用いられる。

[0027]

(抗体)

本発明のタンパク質を抗原として用いて、その抗原に対する抗体を調製することができる。

[0028]

[本発明のタンパク質に対するポリクローナル抗体の作製]

前記の抗原を用いて動物を免疫する。抗原の動物 1 匹当たりの投与量は、ウサギの場合、例えばアジュバントを用いて $100\sim500\,\mu\,\mathrm{g}$ である。アジュバントとしては、フロイント完全アジュバント (FCA)、フロイント不完全アジュバント (FIA)、水酸化アルミニウムアジュバント等が挙げられる。

[0029]



免疫は、哺乳動物(例えばラット、マウス、ウサギなどの非ヒト哺乳動物)に 投与することにより行われる。投与部位は静脈内、皮下又は腹腔内である。また 、免疫の間隔は特に限定されず、数日から数週間間隔、好ましくは2~3週間間 隔で、1~10回、好ましくは2~3回免疫を行う。そして、最終の免疫日から6 ~60日後に抗体価を測定し、最大の抗体価を示した日に採血し、抗血清を得る。 抗体価の測定は、酵素免疫測定法(ELISA; enzyme-linked immunosorbent assay) 、放射性免疫測定法(RIA; radioimmuno assay)等により行うことができる。

抗血清から抗体の精製が必要とされる場合は、硫安塩析法、イオン交換クロマトグラフィー、ゲル濾過、アフィニティークロマトグラフィーなどの公知の方法 を適宜選択して、又はこれらを組み合わせることにより精製することができる。

[0030]

[タンパク質に対するモノクローナル抗体の作製]

上記抗原を用いて動物を免疫する。必要であれば、免疫を効果的に行うため、前 記と同様アジュバント(市販のフロイント完全アジュバント、フロイント不完全 アジュバント等)を混合してもよい。

[0031]

免疫は、哺乳動物(例えばラット、マウス、ウサギなど)に投与することにより行われる。抗原の1回の投与量は、マウスの場合1匹当たり50µgである。投与部位は、主として静脈内、皮下、腹腔内である。また、免疫の間隔は特に限定されず、数日から数週間間隔、好ましくは2~3週間間隔で、最低2~3回行う。そして、最終免疫後、抗体産生細胞を採集する。抗体産生細胞としては、脾臓細胞、リンパ節細胞、末梢血細胞等が挙げられるが、脾臓細胞が好ましい。

[0032]

[細胞融合]

ハイブリドーマを得るため、抗体産生細胞とミエローマ細胞との細胞融合を行う。抗体産生細胞と融合させるミエローマ細胞として、マウスなどの動物由来の細胞であって一般に入手可能な株化細胞を使用することができる。使用する細胞株として、薬剤選択性を有し、未融合の状態ではHAT選択培地(ヒポキサンチン、アミノプテリン及びチミジンを含む)で生存できず、抗体産生細胞と融合した



状態でのみ生存できる性質を有するものが好ましい。例えば、ミエローマ細胞の具体例としてはP3X63-Ag. 8. U1(P3U1)、P3/NSI/1-Ag4-1、Sp2/0-Ag14などのマウスミエローマ細胞株が挙げられる。

次に、上記ミエローマ細胞と抗体産生細胞とを細胞融合させる。細胞融合は、血清を含まないDMEM、RPMI-1640培地などの動物細胞培養用培地中に、抗体産生細胞とミエローマ細胞とを15:1~25:1の割合で混合し、ポリエチレングリコール等の細胞融合促進剤存在のもとで、あるいは電気パルス処理(例えばエレクトロポレーション)により融合反応を行う。

[0033]

[ハイブリドーマの選別及びクローニング]

細胞融合処理後の細胞から目的とするハイブリドーマを選別する。例えば、ヒポキサンチン、アミノプテリン及びチミジンを含む培地を用いて培養し、生育する細胞をハイブリドーマとして得ることができる。

次に、増殖したハイブリドーマの培養上清中に、目的とする抗体が存在するか否かをスクリーニングする。ハイブリドーマのスクリーニングは、通常の方法に従えばよく、特に限定されるものではない。例えば、ハイブリドーマとして生育したウェルに含まれる培養上清の一部を採集し、酵素免疫測定法(ELISA; enzyme-linked immunosorbent assay)、RIA (radioimmuno assay)等によってスクリーニングすることができる。融合細胞のクローニングは、限界希釈法等により行い、最終的に単クローン抗体産生細胞であるハイブリドーマを樹立する。

[0034]

[モノクローナル抗体の採取]

樹立したハイブリドーマからモノクローナル抗体を採取する方法として、通常の細胞培養法等を採用することができる。細胞培養法においては、ハイブリドーマを10%牛胎児血清含有 RPMI-1640培地又はMEM 培地等の動物細胞培養培地中、通常の培養条件(例えば37%, 5% CO_2 濃度)で $3\sim10$ 日間培養し、その培養上清から抗体を取得する。

上記抗体の採取方法において、抗体の精製が必要とされる場合は、硫安分画法 、イオン交換クロマトグラフィー、アフィニティークロマトグラフィー、ゲルク



ロマトグラフィーなどの公知の方法を適宜に選択して、又はこれらの方法を組み 合わせることにより精製することができる。

[0035]

(本発明のタンパク質の製造)

本発明のタンパク質は、例えば、形質転換体を培養し、その培養物から採取することにより得ることができる。「培養物」とは、培養上清のほか、培養細胞若しくは培養菌体又は細胞若しくは菌体の破砕物のいずれをも意味するものである。「本発明の形質転換体を培養する方法」は、宿主の培養に適用される通常の方法に従って行われる。

[0036]

大陽菌や酵母菌等の微生物を宿主として得られた形質転換体を培養する培地としては、微生物が資化し得る炭素源、窒素源、無機塩類等を含有し、形質転換体の培養を効率的に行うことができる培地であれば、天然培地、合成培地のいずれを用いてもよい。炭素源としては、グルコース、フラクトース、スクロース、デンプン等の炭水化物、酢酸、プロピオン酸等の有機酸、エタノール、プロパノール等のアルコール類が用いられる。窒素源としては、アンモニア、塩化アンモニウム、硫酸アンモニウム、酢酸アンモニウム、リン酸アンモニウム等の無機酸若しくは有機酸のアンモニウム塩又はその他の含窒素化合物のほか、ペプトン、肉エキス、コーンスティープリカー等が用いられる。無機物としては、リン酸第一カリウム、リン酸第二カリウム、リン酸マグネシウム、硫酸マグネシウム、塩化ナトリウム、硫酸第一鉄、硫酸マンガン、硫酸銅、炭酸カルシウム等が用いられる。

[0037]

培養は、好ましくは、振盪培養又は通気攪拌培養などの好気的条件下、37℃で6~24時間行う。培養期間中、pHは7.0~7.5に保持する。pHの調整は、好ましくは無機又は有機酸、アルカリ溶液等を用いて行う。培養中は必要に応じてアンピシリンやテトラサイクリン等の抗生物質を培地に添加してもよい。

[0038]

プロモーターとして誘導性のプロモーターを用いた発現ベクターで形質転換し



た微生物を培養する場合は、必要に応じてインデューサーを培地に添加してもよい。例えば、Lacプロモーターを用いた発現ベクターで形質転換した微生物を培養するときにはイソプロピル-β-D-チオガラクトピラノシド(IPTG)等を、trpプロモーターを用いた発現ベクターで形質転換した微生物を培養するときにはインドールアクリル酸(IAA)等を培地に添加してもよい。

[0039]

動物細胞を宿主として得られた形質転換体を培養する培地としては、一般に使用されているRPMI1640培地、DMEM培地又はこれらの培地に牛胎児血清等を添加した培地等が用いられる。培養は、通常、5%CO2存在下、37℃で1~30日行う。培養中は必要に応じてカナマイシン、ペニシリン等の抗生物質を培地に添加してもよい。

[0040]

培養後、タンパク質が菌体内又は細胞内に生産される場合には、菌体又は細胞を破砕することによりタンパク質を抽出する。また、本発明のタンパク質が菌体外又は細胞外に生産される場合には、培養液をそのまま使用するか、遠心分離等により菌体又は細胞を除去する。その後、タンパク質の単離精製に用いられる一般的な生化学的方法、例えば硫酸アンモニウム沈殿、ゲルクロマトグラフィー、イオン交換クロマトグラフィー、アフィニティークロマトグラフィー等を単独で又は適宜組み合わせて用いることにより、前記培養物中から本発明のタンパク質を単離精製することができる。この精製工程の間又は後において、プロテアーゼ処理により精製のために用いられたタグ配列を除去することができる。

[0041]

(無細胞タンパク質合成系を用いるドメインを形成するタンパク質の製造方法)

本発明は、無細胞タンパク質合成系を用いる、配列番号1、3、5、7、9のいずれか一つに記載のアミノ酸配列を有するドメインを形成するタンパク質、および配列番号7に記載されたアミノ酸配列のN末端から0個~10個のアミノ酸 残基が欠損し、更にC末端から0個~5個のアミノ酸残基が欠損したアミノ酸配列を有し、アミノ酸残基数が92~106であるタンパク質の製造方法も提供す



る。

無細胞タンパク質合成系は、細胞抽出液を用いて試験管内でタンパク質を合成する系である。「無細胞タンパク質合成系」は、mRNAの情報を読み取ってリボソーム上でタンパク質を合成する無細胞翻訳系、及びDNAを鋳型としてRNAを合成する無細胞転写系と無細胞翻訳系の両者を含む。無細胞タンパク質合成系は、系を容易に改変することができるため、目的のタンパク質に適した発現系を構築しやすいという利点がある。なお、無細胞タンパク質合成系の詳細については、特許公開2000-175695号などに記載されている。

[0042]

[細胞抽出液]

粗細胞抽出液は、細菌(例えば大腸菌等)、菌類(例えば出芽酵母等)、小麦胚芽、ウサギ網赤血球、マウスL-細胞、エールリッヒ腹水癌細胞、HeLa細胞、CHO細胞等の、高いタンパク質合成活性の状態の真核および原核生物細胞からの抽出液であってもよい(Clemens, M. J., Transcriptionandtranslation-apracticalapproach, (1984), pp. 231-270, Henes, B. D. とHiggins, S. J. 編, IRLPress, Oxford)。

粗細胞抽出液はリボソーム、tRNAなどのタンパク質合成に必要な成分を含むことが好ましい。粗抽出液の調製は、例えばPratt, J. M. ら, Transcription and translation—apractical approach, (1984), pp. 179-209, Henes, B. D. とHiggins, S. J. 編, IRLPress, Oxfordに記載の方法を使用できる。具体的には、フレンチプレッスによる破砕(Prattら, 上掲)やグラスビーズを用いた破砕によって行うことができる。好ましい細胞抽出液は大腸菌S30細胞抽出液である。S30細胞抽出液は、大腸菌BL21Codon Plus株から既知の方法、例えばPrattら(上掲)の方法に従って調製できるし、あるいはPromega社やNovagen社から市販されるものを使用してもよい。細胞抽出液としては、主に大腸菌、小麦胚、ウサギ網赤血球由来のものが使用される。



[0043]

[透析装置]

透析膜を介して内液と外液とを隔離して含む振とうもしくは攪拌可能な透析装置を用いることができる。小スケール反応用装置としては、例えばDispo Dialyzer(登録商標)(Spectrum社製)やSlidealyzer(登録商標)(Pierce社製)が挙げられる。

また、大スケール反応用装置としては、Spectra/Por(登録商標)透析用チューブ(Spectrum社製)を例示できる。

[0044]

[透析内液]

無細胞タンパク質合成系における透析内液(すなわち、タンパク質合成反応液)には、大腸菌S30等の濃縮細胞抽出液の他に、目的のタンパク質をコードするDNAもしくはRNA(mRNA等)、ATP(アデノシン5'ー三リン酸)、GTP(グアノシン5'ー三リン酸)、CTP(シチジン5'ー三リン酸)、UTP(ウリジン5'ー三リン酸)、緩衝液、塩類、アミノ酸、RNアーゼ阻害剤、抗菌剤、必要によりRNAポリメラーゼ(DNAを鋳型として用いる場合)およびtRNA、などを含んでもよい。

その他、ATP再生系としてホスホエノールピルベートとピルビン酸キナーゼの組合わせまたはクレアチンホスフェートとクレアチンキナーゼの組合わせ、ポリエチレングリコール(例えば#8000)、3',5'ーcAMP、葉酸類、RNアーゼ阻害剤、還元剤(例えばジチオトレイトール)、などを含むことができる。一方、透析外液(すなわち、タンパク質合成基質溶液)は、透析内液組成から細胞抽出液、RNアーゼ阻害剤、DNAもしくはRNA、RNAポリメラーゼを除いたものが使用できる。例えば、緩衝液、ATP、GTP、CTP、UTP,塩類、アミノ酸、抗菌剤などを含むことができる。添加成分の濃度は任意に選択することができる。

[0045]

「緩衝液〕

緩衝液としては、例えばHepes-KOH、Tris-OAcのような緩



衝剤を使用できる。塩類の例は、酢酸塩(例えばアンモニウム塩、マグネシウム塩など)、グルタミン酸塩などであり、抗菌剤の例はアジ化ナトリウム、アンピシリンなどである。アミノ酸はタンパク質を構成する20種のアミノ酸である。また、DNAを鋳型として用いる場合にはRNAポリメラーゼを反応系に添加するが、例えばT7RNAポリメラーゼなどの市販の酵素を使用できる

[0046]

透析膜の内部に上記透析内液を、一方その外部に透析外液を入れた、膜の分子量限界に応じて物質が膜を介して移動可能とする閉鎖系を振とうまたは攪拌(回転攪拌など)し、生成した目的タンパク質を、透析内液または外液から回収することができる。温度および攪拌速度などの反応条件は、タンパク質の種類に応じて任意の条件を使用できる。タンパク質の合成の場合、温度は通常約25~約50℃、好ましくは37℃であるが、高度好熱菌由来の菌体抽出液を用いる無細胞タンパク質合成系では50℃を超える温度でもよい。

また、振とう速度もしくは攪拌速度は低速、例えば100~200rpmを使用できる。目的のタンパク質の生成を監視しながら、反応時間を適当に選択することができる。

[0047]

上記無細胞タンパク質合成系の透析外液を、反応速度が低下した時点で新鮮なものと交換することが好ましい。また、透析膜の分子量限界が10000ダルトンを超えるもの、好ましくは約5000ダルトンおよびそれ以上のものを使用する場合には、タンパク質の生産量をさらに高めることができる。

[0048]

[タンパク質の精製]

生成タンパク質の精製は、生細胞からの分離と比べて混在する汚染物質の量および種類が格段に少ないため、比較的容易に行うことができる。精製法は、タンパク質の性質に応じて従来公知のものを単独にまたは適宜組合わせて使用できる。例えば硫酸アンモニウムもしくはアセトン沈殿、酸抽出、アニオンもしくはカチオン交換クロマトグラフィー、疎水性相互作用クロマトグラフィー



、アフィニティークロマトグラフィー、ゲルろ過クロマトグラフィー、HPL C、電気泳動、クロマトフォーカシングなどの慣用の技術を挙げることができ る。この精製工程の間又は後においてプロテアーゼ処理により、精製のために 用いられたタグ配列を除去することができる。生成タンパク質の同定および定 量は、活性測定、免疫学的測定、分光学的測定、アミノ酸分析などによって、 必要に応じて標準サンプルと比較しながら行うことができる。

[0049]

(スクリーニング方法)

本発明のスクリーニング方法としては、本発明のタンパク質またはその塩と候補物質とを接触させる工程と、前記タンパク質と候補物質とが相互作用をするかどうかを確認する工程とを含む前記タンパク質と相互作用を有する化合物のスクリーニング方法が挙げられる。ここで、「相互作用を有する」とは、化合物とタンパク質が結合して、そのタンパク質の分子機能及び/又は生理活性を抑制または増強すること、などをいう。このスクリーニング方法においては、そのタンパク質と候補物質を接触させて、そのタンパク質の分子機能または生理活性が変化するか否かを測定する。

[0050]

[NMRを用いた相互作用物質探索]

相互作用物質探索にNMRを用いる場合、候補物質の添加前後でのタンパク質のシグナル変化の有無により、相互作用の有無を判定することができる。すなわち、相互作用候補物質がタンパク質と相互作用する場合には、タンパク質の相互作用部位近傍に由来するNMRシグナルの化学シフト値、線幅、個数等に変化が起きることが期待されるので、その変化を検出することで相互作用の有無を判定できる。特に15Nで標識したタンパク質は調製が比較的容易であり、そこから得られる15N-HSQCスペクトルは、分解能や感度が比較的高く、添加した相互作用候補物質由来のNMRシグナルの影響を受けにくいため、その有用性は高い。

[0051]

(定量方法)

本発明のタンパク質は、例えば本発明の抗体を用いることによっても定量する



ことができる。抗体を用いたタンパク質の定量方法としては、例えば、サンドイッチ免疫測定法、競合法、イムノメトリック法、ネフメトリー法などが挙げられる。また、放射性同位体や酵素、蛍光物質などの標識物質を用いて検出することもできる。

[0052]

(定量方法を用いたスクリーニング方法)

本発明の抗体は、本発明のタンパク質と特異的に結合するため、本発明の抗体 を用いることで、本発明のタンパク質と相互作用する化合物のスクリーングなど に用いることができる。この際のスクリーニング方法としては、公知のスクリー ニング方法を用いることができる。

[0053]

なお、本発明の抗体を用いた、本発明のタンパク質の定量方法によれば、本発明のタンパク質が関与する疾患の予防・診断を行うことができる。

[0054]

(立体構造解析)

タンパク質の立体構造は、NMRによる構造解析、X線構造解析などによって 解析することができる。

[0055]

(NMR)

NMRに用いる試料としては、特に限定されるわけではないが、好ましくは、タンパク質中の 12 C、または 14 Nを 13 C、 15 N核で安定同位体標識した試料を用いる(多核多次元NMR測定)。タンパク質を安定同位体標識する技術は慣用技術であり、例えば、Clore、G.M.& Gronenborn、A.M., Science、 25 2、p. 13 90- 13 99, 19 91等の文献に記載されている。特に、主鎖 15 N均一安定同位体標識したタンパク質試料を用いた解析が容易であり好ましい。また、タンパク質の主鎖の骨格を、 13 C、 15 N及び 2 Hのうち少なくとも2種類以上の同位体標識したものを使用してもよい(特表20 15 14239)。

[0056]



好ましくは、 $IPAP-HSQCスペクトルの観測等による<math>^{15}N-^{1}H$ スピン結合定数の測定を行う。 $\GammaIPAP-HSQCスペクトル$ 」とは、準位相、反位相の2つの $HSQCスペクトルを同時に観測し、両者のスペクトルの足しあわせをすることにより、シグナルのオーバーラップを防いで、効果的に<math>^{15}N-^{1}H$ スピン結合定数を読みとるための測定法である。

[0057]

2種類以上のNMR法により化学シフト帰属が行われる。例えば、2次元NMRとしては2D、DOQ-COSY、TOCSY、NOESY、HSQC等、多次元NMRとしては、HNCO、HCACO、HNCA、HCA(CO)N、HN(CO)CA、HNHB、CBCANH、H(CA)NH、HBHA(CO)NH、HCCH-COSY、HCANH、HCCH-TOCSY、HCACON、15N-NOESY-HSQC、13C-NOESY-HSQC等が公知技術として知られている。NMRの一般的手法は周知であり、例えば、「タンパク質のNMR」(共立出版、1996、荒田洋治);「日本生化学会編 基礎生化学実験法 第3巻 タンパク質I.検出・構造解析法」第18章NMRによる立体構造解析(東京化学同人、2001年2月);伊藤隆ら、日本農薬学会誌21,p.450-459、1996;田中俊之、化学と工業 第49巻 第2号 p.155-158、1996等に詳述されている。

[0058]

立体構造解析にNMRを用いる場合、タンパク質の各プロトン間の核オーバーハウザー効果の大きさから各プロトン間の距離を見積もり、その距離情報に基づき立体構造を決定する方法が一般的である。化学シフト値、スカラーカップリング値、残余双極子カップリング値、水素結合等の情報を加えて立体構造を精密化することも可能である。

[0059]

NMRデータから構造解析を行うための多くのプログラムが周知である。好ましくは、化学シフト帰属のためのものとして、NMR Pipe、PIPP、Capp、Felix、NMR View、XEASY、立体構造計算ソフトとしてX-PLOR、CNS、DYANA、DYNAMO等を用いて構造解析を行う。





[0060]

(X線結晶構造解析)

立体構造解析にX線結晶構造解析を用いる場合,結晶化させたタンパク質のX線回折像に基づき電子密度図を計算し,立体構造を決定する.すなわち、タンパク質を結晶化し、その結晶に単色化されたX線をあて、得られたX線の回折像をもとに、該蛋白質の3次元構造を明らかにしていくものである(Blundell, T. L. 及びJohnson, L. N., PROTEIN CRYSTAL LOGRAPHY, 1-565頁, (1976) Academic Press, New York)。

[0061]

(立体構造情報に基づくスクリーニング方法)

次に、本発明は、前記タンパク質の立体構造に関する情報を用いて、前記タンパク質の活性部位を決定する工程と、当該活性部位と相互作用する化合物をコンピュータ上で検索する工程とを含む、前記タンパク質またはその塩と相互作用する化合物のスクリーニング方法をも提供する。

[0062]

(インシリコ スクリーニング)

分子の3次元構造に基づく薬物設計については、医薬品の開発・第7巻「分子設計」(廣川書店)をはじめとして数多くの総説がある。具体的には、第一にFlexiDock、FlexX等のフレキシブルリガンドバインディングシミュレーションソフトウエアを用いて、Oracle等のリレーショナルデータベースに格納された低分子(分子量1000以下)化合物のライブラリー(たとえば約150000種)をコンピュータでスクリーニングする。このライブラリー内の化学物質はCONCORD等のプログラムで3次元構造を指定し、活性部位にはめ込める物質を選択することができる。選ばれた物質の中からInsight IIやMOE等のシミュレーションプログラムを用いて肉眼により更によく活性部位にあてはまる化合物を絞り込む。一連の過程で利用されるコンピュータソフトウエアは、いずれも以下のような市販のものである。

[0063]

FlexiDock: Tripos Inc.FlexX: Tripos Inc.CONCORD: Tripos Inc.Oracle: Or acle Corp.Insight II: Molecular Simulations Inc.MOE: Chemical Computing Group Inc.

他の方法は、未知の物質を含めた候補化合物のコンピュータによる設計である。この方法には、メチル、エチル等の化学基を活性部位に並べて適合するものを探す方法と、原子を活性部位にコンピュータプログラムを用いて並べていく方法とが知られている。

[0064]

(ウエットスクリーニング)

本発明のタンパク質と相互作用する候補化合物の有力候補を選択するために、インシリコスクリーニングにより得られた候補化合物と本発明のタンパク質と接触させ、本発明のタンパク質の分子機能又は生理活性を測定する。候補化合物と本発明のタンパク質の立体構造データをもとに候補化合物を修飾し、より望ましい構造とする。

[0065]

絞り込まれた化合物を合成し、実際に前記タンパク質と作用させ、スクリーニングする。前記タンパク質の活性を変化させた化合物を、更に動物実験によってインビトロでの活性や、体内動態、あるいは毒性等に関する試験を行う。

[0066]

(相互作用する物質を含む医薬)

本発明のタンパク質と相互作用を有する物質は、そのタンパク質が関与する疾 患の予防及び/又は治療剤として用いることができる。そのような医薬は、経口 又は非経口的に全身又は局所投与することができる。

[0067]

本発明の医薬を経口投与する場合は、錠剤、カプセル剤、顆粒剤、散剤、丸剤、トローチ剤、内用水剤、懸濁剤、乳剤、シロップ剤等のいずれのものであってもよく、使用する際に再溶解させる乾燥生成物にしてもよい。また、本発明の医薬を非経口投与する場合は、静脈内注射(点滴を含む)、筋肉内注射、腹腔内注射、皮下注射、坐剤などの製剤形態を選択することができ、注射用製剤の場合は

単位投与量アンプル又は多投与量容器の状態で提供される。

これらの各種製剤は、製剤上通常用いられる賦形剤、増量剤、結合剤、湿潤剤 、崩壊剤、潤滑剤、界面活性剤、分散剤、緩衝剤、保存剤、溶解補助剤、防腐剤 、矯味矯臭剤、無痛化剤、安定化剤、等張化剤等などを適宜選択し、常法により 製造することができる。

[0068]

上記各種製剤は、医薬的に許容される担体又は添加物を共に含むものであってもよい。このような担体及び添加物の例として、水、医薬的に許容される有機溶剤、コラーゲン、ポリビニルアルコール、ポリビニルピロリドン、カルボキシビニルポリマー、アルギン酸ナトリウム、水溶性デキストラン、カルボキシメチルスターチナトリウム、ペクチン、キサンタンガム、アラビアゴム、カゼイン、ゼラチン、寒天、グリセリン、プロピレングリコール、ポリエチレングリコール、ワセリン、パラフィン、ステアリルアルコール、ステアリン酸、ヒト血清アルブミン、マンニトール、ソルビトール、ラクトースなどが挙げられる。使用される添加物は、本発明の剤型に応じて上記の中から適宜又は組み合わせて選択される

[0069]

本発明の医薬の投与量は、投与対象の年齢、投与経路、投与回数により異なり、広範囲に変えることができる。この場合、本発明のタンパク質の有効量と適切な希釈剤及び薬理学的に使用し得る担体との組合せとして投与される有効量は、一回につき体重1kgあたり0.01mg~1000 mgの範囲の投与量を選ぶことができ、好ましくは1日1回から数回に分けて1日以上投与される。

[0070]

(配列の説明)

本明細書の配列番号は、以下の配列を示す。

「配列番号1]

Cap-Gly様ドメインタンパク質 (KIAA0849 タンパク質(464-554))のアミノ酸配列 を示す。

[配列番号2]

配列番号1のタンパク質をコードするDNA配列を示す。

「配列番号3]

Cap-Gly様ドメインタンパク質 (KIAA0849 タンパク質(414-558))のアミノ酸配列を示す。

「配列番号4]

配列番号3のタンパク質をコードするDNA配列を示す。

「配列番号5]

Cap-Gly様ドメインタンパク質 (KIAA0849 タンパク質 (454-554))のアミノ酸配列を示す。

「配列番号6]

配列番号5のタンパク質をコードするDNA配列を示す。

[配列番号7]

Cap-Gly様ドメインタンパク質 (KIAA0849 タンパク質(454-559)) のアミノ酸配列(配列番号1に示されるアミノ酸配列のN末端とC末端にそれぞれアミノ酸残基NTAPVQESPP、VSNQIが付加したアミノ酸配列) を示す。

「配列番号8]

配列番号7のタンパク質をコードするDNA配列を示す。

[配列番号9]

Cap-Gly様ドメインタンパク質 (KIAA0849 タンパク質 (464-559)のアミノ酸配列を示す。

[配列番号10]

配列番号9のタンパク質をコードするDNA配列を示す。

[配列番号11]

以下の実施例で用いられるプライマーの塩基配列を示す。

[配列番号12]

以下の実施例で用いられるプライマーの塩基配列を示す。

[配列番号13]

以下の実施例で用いられるプライマーの塩基配列を示す。

[配列番号14]

以下の実施例で用いられるプライマーの塩基配列を示す。

「配列番号15]

以下の実施例で用いられるプライマーの塩基配列を示す。

「配列番号16]

以下の実施例で用いられるプライマーの塩基配列を示す。

「配列番号17]

以下の実施例で用いられるプライマーの塩基配列を示す。

「配列番号18]

以下の実施例で用いられるプライマーの塩基配列を示す。

「配列番号19]

以下の実施例で用いられるプライマーの塩基配列を示す。

「配列番号20]

以下の実施例で用いられるプライマーの塩基配列を示す。

[配列番号21]

以下の実施例で用いられるプライマーの塩基配列を示す。

「配列番号22]

配列番号1に示されるアミノ酸配列のN末端とC末端に複数のアミノ酸残基が付加したアミノ酸配列を示す。

[0071]

【実施例】

以下に実施例を示して、本発明をより詳細に説明するが、これらは本発明の範囲を限定するものではない。

i) ドメイン領域の推定

ドメイン領域の推定は以下の手順で行った。

まず、1) <SCOP法>問い合わせ配列が、タンパク質データベースSCOP (Version1.55) に含まれる配列と相同性がある領域が検出された場合、その領域をドメインとして予測した。相同性検出手法はBLASTPを利用し、E-valueが0.1以下のヒットがあった場合に相同性があったと判断した。

2) <PFAM法>問い合わせ配列が、タンパク質モチーフデータベースPFAM (ve

rsion6.5) に含まれる配列プロファイルと相同性がある領域が検出された場合、その領域をドメインとして予測した。相同性検出手法はHMMERを利用し、E-valueが0.1以下のヒットがあった場合に相同性があったと判断した。

- 3) <ProDom法>問い合わせ配列が、タンパク質モチーフデータベースProDom (2000年1月にWebより取得したバージョン)に含まれるコンセンサス配列のいずれかに対して相同性がある領域が検出された場合、その領域をドメインとして予測した。相同性検出手法はBLASTPを利用し、E-valueが0.1以下のヒットがあった場合に相同性があったと判断した。
- 4) <NR法>問い合わせ配列を、タンパク質配列データセット(NCBI-nr)に対してBLASTPによる相同性検索を行い、E-valueが0.1以下のヒットがあった場合、その相同性領域をグループとしてまとめ、ドメインとして予測した。
- 5) <PASS法>問い合わせ配列を、タンパク質配列データセット(NCBI-nr)に対してBLASTPによる相同性検索を行い、相同性が検出された頻度を計算した。 頻度の高い部分を山、低い部分を谷として表示し、谷となっている部分でドメイン境界となるように、一つの山をドメインとして予測した。
- 6) <No Hit法>以上1)から5)までの方法のいずれを用いてもドメイン として検出されなかった領域(残余領域)をドメインとして予測した。
- 7) <差分ドメイン境界設定法>上記6つのドメイン予測について、ヒット領域が重なっている場合の優先順位は1)を最優先として、以下2),3),4),5),6)の順序とし、ヒット領域が重なっているものの、ドメイン境界のずれが30残基以上あり、かつ低い優先度での定義のほうがN末側あるいはC末側により長く存在している場合は、その差分の配列を別途ドメインとして予測した。

[0072]

以上のいずれかの方法で推定されたドメイン領域のうち、Low-Complexity領域 (複雑性の低い配列領域)を1箇所以上有するものや、全長30残基に未満のもの は、除外した。

KIAA0849タンパク質のアミノ酸配列について上述のようにしてドメイン領域の推定を行ったところ、NR法によりアミノ酸残基番号496-539の範囲をドメイン領域と推定した。このドメイン領域は、Low-Complexity領域(複雑性の低い配列領

域)をもたず、全長も30残基以上であるため、最終的に本領域をバイオインフォーマティクスによるドメイン推定の結果とした。

このKIAA0849タンパク質中のアミノ酸残基番号496番から539番までのアミノ酸配列を有するタンパク質(ここで、推定ドメインと称する。)について、後述の無細胞タンパク質合成系を用い、タンパク質合成反応を行った。その後、得られた試料について定法に従ってSDSゲル電気泳動を行い、タンパク質の発現状態を調べた。

その結果、推定ドメインのアミノ酸配列情報からは、目的とするタンパク質の 発現を行うことができなかった。

そこで、この推定ドメインのアミノ酸配列を基準にして、KIAA0849タンパク質のアミノ酸配列に対し、該推定ドメインのドメイン境界の位置をN末端およびC末端においてそれぞれ数残基ずつ伸ばしたり縮めたりしたコンストラクトを系統的に作成した。

即ち、例えばKIAA0849タンパク質のアミノ酸残基番号496番を基準とし、N末端側に10残基ずつ伸縮させ、またC末端側に10残基ずつ短縮させたパターンと、KIAA0849タンパク質のアミノ酸残基番号539番を基準とし、N末端側に5残基ずつ短縮させ、またC末端側に5残基ずつ伸長させたパターンをそれぞれ用意した。

このようにして作成したコンストラクトを全て用いて、個々のパターンについてタンパク質発現を行い、その発現状態をSDSゲル電気泳動にて評価した。

[0073]

「実施例1]

本実施例では、上述のようにして作成したコンストラクトのうち、立体構造解析に用いて好適なCAP-Gly様ドメインを有するKIAA0849タンパク質(464~554)について検討した結果を説明する。

ii) 発現ベクターの構築

(1)第1次PCR

KIAA0849タンパク質をコードするcDNA (DDBJ accession No. AB020656.2) がプラスミドpBluescriptII SK+にクローン化されたプラスミドを含む組換え大腸

菌培養液を用いて、5'プライマー1 (配列番号16), 3'プライマー1 (配列番号17)を用いてPCRを行った。PCR反応液組成は、表1に示す通りとし、プログラムは、通常のPCRのプロトコルに従った。

[0074]

【表1】

[表1] 第1次 PCR 反応の反応液組成

組成	濃度	添加量	終濃度
鋳型プラスミド	(×1/101)	$3\mu\mathrm{L}$	(×3/200)
5'プライマー1	0.25μ M	$4\mu\mathrm{L}$	$0.05\mu\mathrm{M}$
3' プライマー1	0.25μ M	$4\mu\mathrm{L}$	$0.05\mu\mathrm{M}$
dNTPs(東洋紡)	$2 \mathrm{mM}$	$2\mu{ m L}$	0.2 mM
Expand HiFi 緩衝液(15mM 塩化マグネシウム含有)(ロッシュ)	(10×)	$2\mu\mathrm{L}$	(1×)
滅菌蒸留水		4.85μ L	
DNA ポリメラーゼ(ロッシュ)	3.5 U/ μ L	0.15μ L	0.02625 U/ μ
合計量		20 μ L	- LI

[0075]

(2) 第2次PCR

次に、上記反応によって得られた第1次PCR産物と、T7プロモーター配列の下流にHisタグ配列を有する5'プライマー2(配列番号19)とT7ターミネーター配列を有する3'プライマー2(配列番号20)、及びユニバーサルプライマ-U2(配列番号21)とを用いて、第2次PCRを行った。PCR反応液組成は、表2に示す通りとし、プログラムは上記第1次PCRと同様とした。

[0076]

【表2】

[表2] 第2次 PCR 反応の反応液組成

4- 1			
組成	濃度	添加量	終濃度
第1次 PCR 産物(鋳型)	(×1/5)	5 μ L	(×1/20)
5プライマー2	$2\mu\mathrm{M}$	$0.5\mu~\mathrm{L}$	$0.05\mu\mathrm{M}$
3'プライマー 2	$2 \mu M$	0.5μ L	$0.05\mu\mathrm{M}$
ユニバーサルプライマーU2	$100 \mu M$	0.2μ L	$1 \mu M$
dNTPs(東洋紡)	2 mM	2μ L	0.2 mM
Expand HiFi 緩衝液(15mM 塩化マグネシウム含有)(ロッシュ)	(10×)	2μ L	(1×)
滅菌蒸留水		$9.65\mu\mathrm{L}$	
DNA ポリメラーゼ(ロッシュ)	$3.5~\mathrm{U}/\mu~\mathrm{L}$	$0.15\mu\mathrm{L}$	$0.02625~\mathrm{U}/\mu$
			L
合計量		20 μ L	
			·

[0077]

この結果、T7プロモーターの制御下で、Hisタグ配列とKIAA0849タンパク質 (4 64~554) との融合タンパク質を発現することのできる直鎖状二本鎖DNA断片を増幅できた。

[0078]

(3) クローン化

上記第2次PCR反応により得られたDNA断片を,TOPO TA-cloning kit (invtrogen社) により,ベクターpPCR2.1 (invtrogen社) にクローン化することにより、発現ベクターP011213-03を構築した。

[0079]

iii) KIAA0849タンパク質 (464~554) タンパク質の発現

<透析法を用いた無細胞タンパク質合成法による 15 N標識CAP-Gly様ドメインの合成>

大腸菌S30抽出液は、Zubayら(Annu. Rev. Geneti. 7, 267-287, 1973)の方法に従って、大腸菌BL21 codon plus株から調製した。

タンパク質合成反応は、表 3 に示す反応液組成の反応液3mLおよび表 4 に示す 透析外液組成の透析外液30mLのスケールで、30℃で一晩行った。

[0080]

【表3】

[表	3]	反応液組成
Lax	OΙ	以心似粗似

組成	終濃度
Нерез-КОН (рН 7.5)	58 mM
DTT	1.8 mM
ATP	1.2 mM
CTP	0.8 mM
GTP	0.8 mM
UTP	0.8 mM
クレアチンリン酸	80 mM
クレアチンキナーゼ	0.25 mg/mL
ポリエチレングリコール (平均分子量. 8000)	4.0 %
3',5'-cAMP	0.64 mM
L(-)-5-フォルミル-5,6,7,8-テトラヒドロ菜酸	68 μM
大腸菌トータル tRNA	175 μg/mL
グルタミン酸カリウム	210 mM
酢酸アンモニウム	27.5 mM
酢酸マグネシウム	10.7 mM
[15N]標識体アミノ酸ミクスチャー	3 mg/mL
L-[15N]システイン	1 mM
L-[15N] トリプトファン	1 mM
L-[15N] グルタミン	1 mM
L-[15N]アスパラギン	1 mM
アジ化ナトリウム	0.05 %
T7 RNA ポリメラーゼ	66.6 μg/mL
S30抽出液	30 %
鋳型 DNA(P011213-03)	1 μg/mL

[0081]

【表4】

組成	終濃度
Hepes-KOH (pH	58 mM
7.5)	
DTT	1.8 mM
ATP	1.2 mM
CTP	0.8 mM
GTP	0.8 mM
UTP	0.8 mM
クレアチンリン酸	80 mM
クレアチンキナー	$0.25~\mathrm{mg/mL}$
ぜ	
ポリエチレングリコール (平均分子量. 8000)	4.0 9
3',5'-cAMP	0.64 ml
L(-)-5-フォルミル-5,6,7,8-テトラヒドロ葉酸	68 μ I
グルタミン酸カリウム	210 ml
酢酸アンモニウム	27.5 ml
酢酸マグネシウム	10.7 m
[45N]標職体アミノ酸ミクスチャー	3 mg/m
L-[15N]システイン	1 m
L-[15N]トリプトファン	1 m
L-[15N]グルタミン	1 m

[0082]

L-[15N]アスパラギン

アジ化ナトリウム

<SDSゲル電気泳動による発現状態の判定>

合成反応終了後、定法に従ってSDSゲル電気泳動を行い、得られたタンパク質の発現状態を判定した。

1 mM

0.05 %

その結果を図1Aに示す。図1Aから、KIAA0849タンパク質(464~554)が発現していることが確認できた。このKIAA0849タンパク質(464~554)のCAP-Gly様ドメインのアミノ酸配列は配列番号1に示される。

[0083]

[実施例2~5]

本実施例 2~5では、上述のようにして作成したコンストラクトのうち、実施例 1における配列番号 1記載のCAP-Gly様ドメインを有する、KIAA0849タンパク質(414~558) (実施例 2 とする。)、KIAA0849タンパク質(454~554) (実施例 3)、KIAA0849タンパク質(454~559) (実施例 4)、KIAA0849タンパク質(464~559)(実施例 5)について検討した結果を説明する。

即ち、実施例1における第1次PCR及び第2次PCRに用いた各種プライマ-をそれぞれ表5に示すように代え、それ以外は実施例1と同様にして発現ベクターを構築し、得られた直鎖状二本鎖DNA断片を鋳型DNAとしてタンパク質合成を行った。

[0084]

【表5】

[表 5] 第1次 PCR 及び第2次 PCR で用いた各プライマーの配列番号

	第1次PCR		第2次 PCR			
実施例番	5'プライマ	3'プライマ	5'プライマ	3'プライマ	ユニバーサルプ	
号	-1	-1	-2	-2	ライマ-	
1	配列番号	配列番号	配列番号	配列番号	配列番号21	
	16	17	19	20		
2	配列番号	配列番号	配列番号	配列番号	(使用せず)	
	11	12	13	14		
3	配列番号	配列番号	配列番号	配列番号	配列番号21	
1	15	17	19	20		
4	配列番号	配列番号	配列番号	配列番号	配列番号21	
	15	18	19	20		
5	配列番号	配列番号	配列番号	配列番号	配列番号21	
	16	18	19	20		

[0085]

ここで、実施例2については、第1次PCR、第2次PCRにおける各反応液の組成を表6及び表7に示す通りとした。

[0086]

【表 6】

L表 6] 第1次 PCR 反応の反応液組成

組成	濃度	添加量	終濃度
鋳型プラスミド	1nmol/ μ	5 μ L	$0.2 \mathrm{nmol}/\mu \mathrm{L}$
	${f L}$		
5' プライマー1	$1 \mu M$	$1.25\mu\mathrm{L}$	$0.05\mu\mathrm{M}$
3' プライマー 1	$1 \mu M$	1.25μ L	$0.05\mu\mathrm{M}$
dNTPs(東洋紡)	$2 \mathrm{mM}$	$2.5~\mu~\mathrm{L}$	0.2 mM
Expand HiFi 緩衝液(15mM 塩化マグネシ	(10×)	$2.5\mu\mathrm{L}$	(1×)
ウム含有) (ロッシュ)			
滅菌蒸留水		12.3125 μ	
		L	
DNA ポリメラーゼ(ロッシュ)	$3.5~\mathrm{U}/\mu~\mathrm{L}$	0.1875μ L	0.02625 U/μ
			L
合計量		25 μ L	

[0087]

【表7】.

[表 7] 第 2 次 PCR 反応の反応液組成

組成	濃度	添加量	終濃度
第1次PCR 産物(鋳型)	(×1/10)	8 μ L	(×1/25)
5'プライマー2	$1 \mu M$	0.5μ L	0.025μ M
3' プライマー2	$1 \mu M$	0.5μ L	$0.025 \mu M$
DNTPs(東洋紡)	2 mM	2μ L	0.2 mM
Expand HiFi 緩衝液(15mM 塩化マグネシウム含有)(ロッシュ)	(10×)	$2\mu m L$	(1×)
滅菌蒸留水		6.85μ L	
DNA ポリメラーゼ(ロッシュ)	$3.5~\mathrm{U}/\mu~\mathrm{L}$	0.15μ L	0.02625 U/μ
			L
合計量		$20\mu{ m L}$	

[0088]

合成反応終了後、SDSゲル電気泳動による発現状態の判定を行った。

その結果を図1B~Eに示す。図1B~Eから、KIAA0849タンパク質(414~558) (実施例2)、KIAA0849タンパク質(454~554)(実施例3)、KIAA0849タンパ ク質(454~559) (実施例4)、KIAA0849タンパク質(464~559)(実施例5)が発 現していることが確認できた。各実施例にかかるタンパク質のアミノ酸配列は、 配列番号3,5,7,9にそれぞれ示される。

[0089]

「比較例 1~3]

上述のようにして作成したコンストラクトのうち、KIAA0849タンパク質のアミノ酸残基番号474番目から539番目のアミノ酸配列を有するポリペプチドa (比較例1とする。)、アミノ酸残基番号454番目から539番目のアミノ酸配列を有するポリペプチドb (比較例2)、及びアミノ酸残基番号454番目から549番目のアミノ酸配列を有するポリペプチドc (比較例3)について、上述の実施例1と同様にして発現ベクターを構築し、得られた直鎖状二本鎖DNA断片を鋳型DNAとしてタンパク質合成を行った。この際、実施例1における第1次PCRに用いた各種プライマ-としては、本比較例に適したものとして設計したアミノ酸配列のものに代えた。

そして、得られた試料について、SDSゲル電気泳動により発現状態の判定を行った。

その結果を図 2 A,B,Cに示す。比較例 1, 2 においては、図 2 A,Bから明らかなように、各ポリペプチド a, b のアミノ酸配列から求められる推定分子量MW a、MW b に対応する位置(それぞれ、MW a = 1 1.1 k D a,MW b = 1 3.1 k D a)にバンドが現れていないことから、目的とするタンパク質が実際に発現していないことが確認できた。また、比較例 3 では、ポリペプチド c の推定分子量MW c(1 4.2 k D a)に対応する位置よりも実際のバンドが上側に現れたことから(図 2 c 参照)、目的とするタンパク質が良好な発現状態で得られていないことが明らかになった。

iv)構造安定性評価

[0090]

$<^{15}$ N標識ドメインの精製>

上記実施例1~5で合成した各種目的タンパク質の精製を行った。

15N標識ドメインタンパク質の精製には、ヒスチジンタグとニッケルの親和性を利用した.操作は4℃で行った.まず合成反応終了後、3 mlの反応液を4.2 mlの洗浄緩衝液[50 mMリン酸ナトリウム(pH 8.0)/300 mM塩化ナトリウム/10 mMイミダゾール]で希釈、回収し、1960×g、5分間遠心して沈殿を取り除いた.次に、得た上清を0.8 mlのNi-NTA樹脂(キアゲン社)に通して吸着させ、9.6 mlの洗浄緩衝液を通すことで夾雑物を除去した.最後に4 mlの溶出緩衝液[50 mMリン酸ナトリウム(pH 8.0)/300 mM塩化ナトリウム/500 mMイミダゾール]を通すことでサンプルを樹脂から遊離させた.以上の手順により、0.88 mgの精製サンプルを得た.

[0091]

<構造安定性評価のための試料調製>

精製サンプルをNMR測定に適した溶媒にするために,20 mMリン酸ナトリウム(p H 6.0)/100 mM塩化ナトリウム溶液に置換した.その後,サンプルを0.25 ml (サンプル濃度0.28 mM)まで濃縮した.以上の操作には限外ろ過装置(ビバスピン2;ザルトリウス社)を用いた.最後に0.03 mlの重水を添加して,構造安定性評価用試料とした.

<NMR測定による構造安定性評価>

NMR測定用のサンプル管にはシゲミ社の対称型ミクロ試料管(5 mmプローブ用)を用いた。NMR測定は,600 MHzのNMR装置(Avance600; ブルカー社)で,温度25℃のもとで行った。判定には, 1 Hの 1 次元スペクトル(以後 1 Dスペクトルと略記),および 1 H 1 5N 2 次元HSQCスペクトル(以後 1 5N 2 HSQCスペクトルと略記)を用いたその条件は下表のとおりであった。

[0092]

【表8】

[表 8] 構造安定性評価のための NMR 測定条件

スペクトル	積算回数	中心周波数	スペクトル幅	データポイント数
1D	128	¹ H: 2822 Hz	¹H: 8013 Hz	¹H: 8192
15N HSQC	16	¹ H: 2822 Hz	¹H: 8013 Hz	¹H: 2048
		¹⁵ N: 7085 Hz	¹⁵ N: 2190 Hz	¹⁵ N: 128

[0093]

その結果を図3~図7に示す。

NMR測定の結果、図3~図7に示すように、1Dスペクトルのメチル領域の高磁場側(0.7ppmから-0.5ppm付近)に、高磁場シフトしたシグナルが認められた。また、 15 N-HSQCスペクトルには、7ppmから9ppmにわたって分離したアミドプロトンのシグナルが認められた。

これらのシグナルの現れ方は、安定な立体構造を形成しているタンパク質に特徴的であることから、上記実施例 $1\sim5$ で得られた各タンパク質は安定な立体構造を形成していると判定した。

以上のように、本実施例においては、全長KIAA0849タンパク質からコンピュータによりタンパク質の構造・機能を有する構成要素(ドメイン)のアミノ酸配列を予測して、予測した領域を基準として種々のコンストラクトを全て作成してタンパク質発現を行い、実際に取得したタンパク質をSDSゲル電気泳動でその発現状態を確認した。そして、さらに安定な立体構造を有するか否かはNMR測定により評価し、全てのタンパク質について優れた構造安定性を確認した。

したがって、本実施例により、実際に安定な立体構造をもつ(フォールドする) CAP-Gly様ドメインのアミノ酸配列を正確に決定できたことが確認された。

また、このような分子量の小さい、ドメインを形成するタンパク質を用いることで、精度の高い立体構造解析を比較的容易に行うことが可能となった。

そこで、実施例1のKIAA0849タンパク質(464~554)を用いて、以下のように して立体構造解析を行った。

[0094]

v)ヒトターバン腫瘍症候群に関与するガン抑制遺伝子(KIAA0849)産物に含まれるCAP-Gly様ドメインタンパク質のNMRによる構造決定 <13Cl5N標識ドメインの精製>

全ての炭素核および窒素核をそれぞれ安定同位体である炭素13、窒素15により 置換した配列番号22に記載されたタンパク質を、上述の無細胞タンパク質発現 系により作成した。配列番号22に記載されたタンパク質は、配列番号1に記載 されたタンパク質のN末端にGSSGSSG、C末端にSGPSSGで表されるアミノ酸残基 を付加したものであり、これらの付加配列は立体構造には影響を与えないもので ある。したがって、配列番号22に記載されたタンパク質の立体構造を解析する ことは、配列番号1に記載された本発明のタンパク質の立体構造を与える。

得られた高純度標品は高速遠心機用の限外濾過膜付タンパク質濃縮器を用いて標品濃度およそ0.8mM まで濃縮後、NMR解析用標品緩衝液により10倍に希釈した。この濃縮、希釈の操作を3回繰返し、標品精製用の緩衝液をNMR解析用標品緩衝液に完全に置換した。用いたNMR解析用標品緩衝液の組成は、20mM リン酸ナトリウム緩衝液、100mM塩化ナトリウム、1 mM ジチオスレイトールであり、pHは6.0である。NMR解析用標品緩衝液に完全置換された標品の最終的な標品濃度はおよそ0.8mM である。得られた標品は外径5mmのNMR測定用試料管に注入した後、25℃にて2時間保存することにより安定化させた。

[0095]

<NMR測定>

NMR実験にはスイス・ブルカー社製DRX600およびDRX800を使用した。全ての測定は25 で行った。主鎖シグナル帰属を目的としたNMR実験として、二次元スペクトルは 1_{H-15} N HSQC、三次元スペクトルはHNCO、HN(CO)CA、HNCA、CBCA(CO)NH、HNCACB、HBHA(CBCACO)NH、H(CCCO)NH、C(CCCO)NH、15N-edited NOESY を測定

[0096]

<測定データの解析>

測定データをアメリカ・シリコングラフィックス社製ワークステーション0cta ne2およびOrigin3800を用いてフーリエ変換計算を行い、各二次元および三次元 スペクトルを得た。得られたスペクトルデータに基づいて、アミノ酸残基におけ る主鎖シグナルとして α 位および β 位の炭素核である $C\alpha$ と $C\beta$ 、カルボニル基の 炭素核であるC'、 α位および β位の水素核であるHα EHβ、アミド基の水素核 であるHN、アミド基の窒素核であるNを連鎖的に帰属した。この手法は、まずHN(CO) Ca上で隣接残基のCαシグナルの化学シフト値に一致するシグナルをHNCA上で 検索し、自身と隣接する残基のCαシグナルの連鎖性を明らかにする。こ の操作を繰り返すことによりプロリン残基および何らかの原因でシグナルが観測 できない場合を除く全てのCαシグナルを連鎖的に帰属できる。同様の操作を行 うことにより、C(CCCO)NH 、CBCA(CO)NHと HNCACBによりCβシグナル、H(CCCO)N H、HBHA(CBCACO)NHと 15 N-edited NOESYによりHα、 Hβシグナル、さらにHN COによりC'シグナルを帰属することで、より正確に帰属を行うことができる。 さらに、得られた主鎖帰属情報および側鎖帰属用に測定したスペクトルデータを 用いて γ 、 δ 、 ϵ 、 ζ 、 η 位の炭素核、窒素核、水素核の帰属を行う。以上の操 作によりほぼ全てのアミノ酸残基に対するシグナルの帰属データを得た。また、 15N-edited NOESY上の1142個のシグナル、脂肪族系側鎖用¹³C-edited NOESY上の 2158個のシグナル、芳香族系側鎖用 13 C-edited NOESY上の209個のシグナルから 距離制限データを得た。主鎖帰属の際に得られた C_{α} 、 C_{β} 、C'、 H_{α} 、 H_{β} 、HN、Nシグナルの化学シフト値から、ポリペプチド主鎖二面角であるø角、および ϕ 角を高精度で予測するソフトウエアTALOSを用いて、42残基に対する ϕ 、 ϕ 角 データを得た。さらに、HNHBおよびHN(CO)HBのシグナルパターンから35残基にお ける側鎖二面角であるχ角のデータを得た。これらシグナルの帰属データ、距離 制限データ、 ϕ 、 ψ 、 χ 角度制限データを元に、タンパク質立体構造計算用ソフトウエアであるCNSを用いてドメイン構造の計算を行った。得られた立体構造に基づいて、供した距離制限が満たされていないNOE群を比較検討しながら最適化を行った。これを繰返すことで最終的に全ての角度制限と2667個の距離制限を用いて計算し、エネルギー的に安定した立体構造20個を得た。これら構造において二次構造を形成するアミノ酸残基部分の収斂度は、主鎖の原子団に対して0.29 Å、側鎖を含めた水素原子以外の全原子団に対しては0.76 Åであった。

[0097]

構造座標を以下の立体構造座標1~20に示す。

以下の立体構造座標データは、プロテインデータバンク(PDB)のフォーマットに準じて記載されているものである。1列目のATOMはこの行が原子座標の行であることを示し、2列目は、その原子の順番を、3列目はアミノ酸残基等における原子の区別を、4列目はアミノ酸残基等を、5列目は配列番号22に対応したアミノ酸の番号を、6,7,8列目はその原子の座標(a軸、b軸、c軸方向の順番でÅ単位)を、9列目は、その原子の占有率(本発明においてはすべて1.00)を、10列目はその原子の温度因子を示している。最終行は、この表の終わりの行であることを示している。

[0098]

立体構造座標表1

ATOM	1	N	GLY A	1	120.138	11.140	-2.903	1.00	0.00
ATOM	2	CA	GLY A	1	120.658	10.305	-1.785	1.00	0.00
ATOM	3	С	GLY A	1	120.202	8.862	-1.879	1.00	0.00
ATOM	4	0	GLY A	1	119.025	8.590	-2.119	1.00	0.00
ATOM	5	1H	GLY A	1	120.758	11.050	-3.733	1.00	0.00
ATOM	6	2H	GLY A	1	120.103	12.139	-2.617	1.00	0.00
ATOM	7	ЗН	GLY A	1	119.180	10.832	-3.164	1.00	0.00
ATOM	8	1HA	GLY A	1	121.737	10.331	-1.802	1.00	0.00
ATOM	9	2HA	GLY A	1	120.312	10.720	-0.850	1.00	0.00
ATOM	10	N	SER A	2	121.135	7.935	-1.688	1.00	0.00

ATOM	11	CA	SER A	2 120.822	6.512	-1.752 1.00 0.00
ATOM	12	С	SER A	2 119.883	6.109	-0.621 1.00 0.00
ATOM	13	0	SER A	2 119.959	6.647	0.484 1.00 0.00
ATOM	14	CB	SER A	2 122.107	5.683	-1.684 1.00 0.00
ATOM	15	0G	SER A	2 122.628	5.441	-2.980 1.00 0.00
ATOM	16	H	SER A	2 122.055	8.214	-1.500 1.00 0.00
ATOM	17	HA	SER A	2 120.333	6.322	-2.695 1.00 0.00
ATOM	18	1HB	SER A	2 122.846	6.217	-1.107 1.00 0.00
ATOM	19	2HB	SER A	2 121.896	4.735	-1.211 1.00 0.00
ATOM	20	HG	SER A	2 122.628	6.259	-3.482 1.00 0.00
ATOM	21	N	SER A	3 118.997	5.160	-0.902 1.00 0.00
ATOM	22	CA	SER A	3 118.042	4.685	0.092 1.00 0.00
ATOM	23	C	SER A	3 118.645	3.564	0.933 1.00 0.00
ATOM	24	0	SER A	3 118.658	2.404	0.523 1.00 0.00
ATOM	25	CB	SER A	3 116.764	4.194	-0.591 1.00 0.00
ATOM	26	0G	SER A	3 117.063	3.463	-1.768 1.00 0.00
ATOM	27	H	SER A	3 118.986	4.769	-1.801 1.00 0.00
ATOM	28	HA	SER A	3 117.798	5.513	0.739 1.00 0.00
ATOM	29	1HB	SER A	3 116.220	3.553	0.087 1.00 0.00
ATOM	30	2HB	SER A	3 116.152	5.044	-0.854 1.00 0.00
ATOM	31	HG	SER A	3 117.138	4.068	-2.510 1.00 0.00
ATOM	32	N	GLY A	4 119.143	3.920	2.114 1.00 0.00
ATOM	33	CA	GLY A	4 119.741	2.933	2.993 1.00 0.00
ATOM	34	С	GLY A	4 119.727	3.367	4.446 1.00 0.00
ATOM	35	0	GLY A	4 118.924	4.213	4.840 1.00 0.00
ATOM	36	Н	GLY A	4 119.105	4.860	2.388 1.00 0.00
ATOM	37	1HA	GLY A	4 119.195	2.005	2.901 1.00 0.00
ATOM	38	2HA	GLY A	4 120.764	2.767	2.689 1.00 0.00
ATOM	39	N	SER A	5 120.616	2.785	5.244 1.00 0.00

ATOM 40	CA	SER A	5 120.703	3.116	6.662 1.00 0.00
ATOM 41	С	SER A	5 122.050	3.754	6.990 1.00 0.00
ATOM 42	0	SER A	5 122.125	4.697	7.777 1.00 0.00
ATOM 43	CB	SER A	5 120.499	1.861	7.513 1.00 0.00
ATOM 44	OG	SER A	5 119.829	2.169	8.723 1.00 0.00
ATOM 45	H	SER A	5 121.230	2.118	4.870 1.00 0.00
ATOM 46	HA	SER A	5 119.919	3.824	6.886 1.00 0.00
ATOM 47	1HB	SER A	5 119.907	1.147	6.961 1.00 0.00
ATOM 48	2HB	SER A	5 121.461	1.428	7.747 1.00 0.00
ATOM 49	HG	SER A	5 120.475	2.376	9.402 1.00 0.00
ATOM 50	N	SER A	6 123.109	3.233	6.381 1.00 0.00
ATOM 51	CA	SER A	6 124.454	3.751	6.607 1.00 0.00
ATOM 52	c	SER A	6 124.821	4.789	5.552 1.00 0.00
ATOM 53	0	SER A	6 124.732	4.528	4.353 1.00 0.00
ATOM 54	CB	SER A	6 125.472	2.611	6.594 1.00 0.00
ATOM 55	OG	SER A	6 126.514	2.846	7.526 1.00 0.00
ATOM 56	H	SER A	6 122.985	2.481	5.763 1.00 0.00
ATOM 57	HA	SER A	6 124.467	4.223	7.579 1.00 0.00
ATOM 58	1HB	SER A	6 124.978	1.686	6.853 1.00 0.00
ATOM 59	2HB	SER A	6 125.901	2.525	5.606 1.00 0.00
ATOM 60	HG	SER A	6 126.892	2.007	7.803 1.00 0.00
ATOM 61	N	GLY A	7 125.235	5.968	6.007 1.00 0.00
ATOM 62	CA	GLY A	7 125.610	7.027	5.088 1.00 0.00
ATOM 63	С	GLY A	7 127.112	7.214	5.001 1.00 0.00
ATOM 64	0	GLY A	7 127.869	6.243	5.033 1.00 0.00
ATOM 65	H	GLY A	7 125.286	6.119	6.974 1.00 0.00
ATOM 66	1HA	GLY A	7 125.230	6.788	4.107 1.00 0.00
ATOM 67	2HA	GLY A	7 125.161	7.951	5.421 1.00 0.00
ATOM 68	N	LEU A	8 127.545	8.467	4.889 1.00 0.00

ATOM 69	CA LEU A	8 128.966	8.780	4.795 1.00 0.00
ATOM 70	C LEU A	8 129.559	8.221	3.505 1.00 0.00
ATOM 71	O LEU A	8 130.682	7.717	3.493 1.00 0.00
ATOM 72	CB LEU A	8 129.719	8.220	6.004 1.00 0.00
ATOM 73	CG LEU A	8 129.030	8.435	7.352 1.00 0.00
ATOM 74	CD1 LEU A	8 129.288	7.256	8.279 1.00 0.00
ATOM 75	CD2 LEU A	8 129.506	9.731	7.991 1.00 0.00
ATOM 76	H LEU A	8 126.893	9.197	4.867 1.00 0.00
ATOM 77	HA LEU A	8 129.068	9.855	4.786 1.00 0.00
ATOM 78	1HB LEU A	8 129.853	7.157	5.856 1.00 0.00
ATOM 79	2HB LEU A	8 130.692	8.685	6.043 1.00 0.00
ATOM 80	HG LEU A	8 127.964	8.510	7.196 1.00 0.00
ATOM 81	1HD1 LEU A	8 129.004	7.522	9.286 1.00 0.00
ATOM 82	2HD1 LEU A	8 130.337	7.002	8.254 1.00 0.00
ATOM 83	3HD1 LEU A	8 128.704	6.408	7.952 1.00 0.00
ATOM 84	1HD2 LEU A	8 130.301	9.516	8.691 1.00 0.00
ATOM 85	2HD2 LEU A	8 128.684	10.199	8.512 1.00 0.00
ATOM 86	3HD2 LEU A	8 129.872	10.397	7.224 1.00 0.00
ATOM 87	N ALA A	9 128.795	8.314	2.423 1.00 0.00
ATOM 88	CA ALA A	9 129.241	7.818	1.128 1.00 0.00
ATOM 89	C ALA A	9 129.592	8.968	0.192 1.00 0.00
ATOM 90	O ALA A	9 128.799	9.890	0.000 1.00 0.00
ATOM 91	CB ALA A	9 128.171	6.934	0.504 1.00 0.00
ATOM 92	H ALA A	9 127.908	8.725	2.497 1.00 0.00
ATOM 93	HA ALA A	9 130.123	7.216	1.289 1.00 0.00
ATOM 94	1HB ALA A	9 127.782	6.258	1.251 1.00 0.00
ATOM 95	2HB ALA A	9 128.602	6.365	-0.308 1.00 0.00
ATOM 96	3HB ALA A	9 127.369	7.552	0.126 1.00 0.00
ATOM 97	N MET A	10 130.785	8.908	-0.389 1.00 0.00

ATOM 98	CA	MET A	10 131.242	9.945	-1.306 1.00 0.00
ATOM 99	С	MET A	10 131.920	9.331	-2.528 1.00 0.00
ATOM 100	0	MET A	10 133.135	9.442	-2.697 1.00 0.00
ATOM 101	CB	MET A	10 132.206	10.896	-0.594 1.00 0.00
ATOM 102	CG	MET A	10 131.568	11.663	0.553 1.00 0.00
ATOM 103	SD	MET A	10 132.377	13.245	0.863 1.00 0.00
ATOM 104	CE	MET A	10 132.247	14.013	-0.751 1.00 0.00
ATOM 105	H	MET A	10 131.373	8.148	-0.197 1.00 0.00
ATOM 106	HA	MET A	10 130.376	10.503	-1.632 1.00 0.00
ATOM 107	1HB	MET A	10 133.031	10.321	-0.200 1.00 0.00
ATOM 108	2HB	MET A	10 132.585	11.609	-1.310 1.00 0.00
ATOM 109	1HG	MET A	10 130.531	11.846	0.314 1.00 0.00
ATOM 110	2HG	MET A	10 131.629	11.062	1.448 1.00 0.00
ATOM 111	1HE	MET A	10 133.228	14.073	-1.200 1.00 0.00
ATOM 112	2HE	MET A	10 131.839	15.007	-0.644 1.00 0.00
ATOM 113	3HE	MET A	10 131.598	13.422	-1.380 1.00 0.00
ATOM 114	N	PRO A	11 131.139	8.673	-3.402 1.00 0.00
ATOM 115	CA	PRO A	11 131.671	8.043	-4.613 1.00 0.00
ATOM 116	С	PRO A	11 132.451	9.024	-5.486 1.00 0.00
ATOM 117	0	PRO A	11 133.544	8.709	-5.957 1.00 0.00
ATOM 118	CB	PRO A	11 130.423	7.547	-5.350 1.00 0.00
ATOM 119	CG	PRO A	11 129.365	7.447	-4.304 1.00 0.00
ATOM 120	CD	PRO A	11 129.682	8.497	-3.277 1.00 0.00
ATOM 121	HA	PRO A	11 132.304	7.202	-4.372 1.00 0.00
ATOM 122	1HB	PRO A	11 130.152	8.253	-6.120 1.00 0.00
ATOM 123	2HB	PRO A	11 130.626	6.585	-5.795 1.00 0.00
ATOM 124	1HG	PRO A	11 128.400	7.638	-4.744 1.00 0.00
ATOM 125	2HG	PRO A	11 129.387	6.466	-3.855 1.00 0.00
ATOM 126	1HD	PRO A	11 129.162	9.416	-3.504 1.00 0.00

ATOM 127	2HD	PRO A	11 129.421	8.149	-2.288 1.00 0.00
ATOM 128	N	PRO A	12 131.907	10.235	-5.713 1.00 0.00
ATOM 129	CA	PRO A	12 132.573	11.253	-6.531 1.00 0.00
ATOM 130	С	PRO A	12 133.937	11.637	-5.966 1.00 0.00
ATOM 131	0	PRO A	12 134.781	12.188	-6.673 1.00 0.00
ATOM 132	CB	PRO A	12 131.618	12.453	-6.477 1.00 0.00
ATOM 133	CG	PRO A	12 130.301	11.882	-6.078 1.00 0.00
ATOM 134	CD	PRO A	12 130.613	10.712	-5.191 1.00 0.00
ATOM 135	HA	PRO A	12 132.688	10.926	-7.553 1.00 0.00
ATOM 136	1HB	PRO A	12 131.975	13.167	-5.750 1.00 0.00
ATOM 137	2HB	PRO A	12 131.566	12.918	-7.451 1.00 0.00
ATOM 138	1HG	PRO A	12 129.729	12.621	-5.537 1.00 0.00
ATOM 139	2HG	PRO A	12 129.761	11.555	-6.954 1.00 0.00
ATOM 140	1HD	PRO A	12 130.705	11.030	-4.163 1.00 0.00
ATOM 141	2HD	PRO A	12 129.854	9.952	-5.287 1.00 0.00
ATOM 142	N	GLY A	13 134.145	11.341	-4.687 1.00 0.00
ATOM 143	CA	GLY A	13 135.408	11.661	-4.048 1.00 0.00
ATOM 144	С	GLY A	13 136.522	10.720	-4.461 1.00 0.00
ATOM 145	0	GLY A	13 137.189	10.944	-5.472 1.00 0.00
ATOM 146	H	GLY A	13 133.435	10.900	-4.171 1.00 0.00
ATOM 147	1HA	GLY A	13 135.687	12.670	-4.313 1.00 0.00
ATOM 148	2HA	GLY A	13 135.282	11.603	-2.977 1.00 0.00
ATOM 149	N	ASN A	14 136.723	9.665	-3.678 1.00 0.00
ATOM 150	CA	ASN A	14 137.765	8.687	-3.969 1.00 0.00
ATOM 151	С	ASN A	14 137.162	7.396	-4.514 1.00 0.00
ATOM 152	0	ASN A	14 137.556	6.914	-5.575 1.00 0.00
ATOM 153	CB	ASN A	14 138.580	8.389	-2.709 1.00 0.00
ATOM 154	CG	ASN A	14 139.257	9.626	-2.152 1.00 0.00
ATOM 155	OD1	ASN A	14 140.304	10.048	-2.643 1.00 0.00

ATOM 156	ND2	ASN A	14 138.660	10.215	-1.122 1.00 0.00
ATOM 157	Н	ASN A	14 136.159	9.542	-2.887 1.00 0.00
ATOM 158	HA	ASN A	14 138.418	9.109	-4.718 1.00 0.00
ATOM 159	1HB	ASN A	14 137.925	7.988	-1.950 1.00 0.00
ATOM 160	2HB	ASN A	14 139.341	7.660	-2.944 1.00 0.00
ATOM 161	1HD2	ASN A	14 137.829	9.823	-0.784 1.00 0.00
ATOM 162	2HD2	ASN A	14 139.076	11.018	-0.744 1.00 0.00
ATOM 163	N	SER A	15 136.202	6.842	-3.779 1.00 0.00
ATOM 164	CA	SER A	15 135.544	5.607	-4.189 1.00 0.00
ATOM 165	С	SER A	15 134.436	5.233	-3.208 1.00 0.00
ATOM 166	0	SER A	15 133.344	4.832	-3.612 1.00 0.00
ATOM 167.	CB	SER A	15 136.561	4.468	-4.286 1.00 0.00
ATOM 168	OG	SER A	15 137.099	4.375	-5.592 1.00 0.00
ATOM 169	Н	SER A	15 135.930	7.274	-2.943 1.00 0.00
ATOM 170	HA	SER A	15 135.106	5.770	-5.163 1.00 0.00
ATOM 171	1HB	SER A	15 137.366	4.649	-3.590 1.00 0.00
ATOM 172	2HB	SER A	15 136.076	3.535	-4.041 1.00 0.00
ATOM 173	HG	SER A	15 136.766	3.582	-6.020 1.00 0.00
ATOM 174	N	HIS A	16 134.726	5.365	-1.919 1.00 0.00
ATOM 175	CA	HIS A	16 133.756	5.041	-0.879 1.00 0.00
ATOM 176	С	HIS A	16 134.196	5.603	0.468 1.00 0.00
ATOM 177	0	HIS A	16 133.479	6.389	1.089 1.00 0.00
ATOM 178	CB	HIS A	16 133.574	3.525	-0.778 1.00 0.00
ATOM 179	CG	HIS A	16 132.466	2.998	-1.636 1.00 0.00
ATOM 180	ND1	HIS A	16 131.131	3.188	-1.343 1.00 0.00
ATOM 181	CD2	HIS A	16 132.499	2.283	-2.786 1.00 0.00
ATOM 182	CE1	HIS A	16 130.392	2.611	-2.275 1.00 0.00
ATOM 183	NE2	HIS A	16 131.198	2.057	-3.162 1.00 0.00
ATOM 184	Н	HIS A	16 135.614	5.688	-1.660 1.00 0.00

ATOM 185	HA	HIS A	16 132.814	5.491	-1.153 1.00 0.00
ATOM 186	1HB	HIS A	16 134.489	3.038	-1.081 1.00 0.00
ATOM 187	2HB	HIS A	16 133.355	3.264	0.247 1.00 0.00
ATOM 188	HD1	HIS A	16 130.779	3.672	-0.567 1.00 0.00
ATOM 189	HD2	HIS A	16 133.384	1.952	-3.310 1.00 0.00
ATOM 190	HE1	HIS A	16 129.313	2.598	-2.306 1.00 0.00
ATOM 191	HE2	HIS A	16 130.911	1.498	-3.913 1.00 0.00
ATOM 192	N	GLY A	17 135.381	5.198	0.914 1.00 0.00
ATOM 193	CA	GLY A	17 135.896	5.673	2.185 1.00 0.00
ATOM 194	.C	GLY A	17 137.255	5.085	2.515 1.00 0.00
ATOM 195	0	GLY A	17 137.399	4.345	3.488 1.00 0.00
ATOM 196	Н	GLY A	17 135.909	4.572	0.377 1.00 0.00
ATOM 197	1HA	GLY A	17 135.981	6.748	2.148 1.00 0.00
ATOM 198	2HA	GLY A	17 135.201	5.403	2.967 1.00 0.00
ATOM 199	N	LEU A	18 138.253	5.417	1.703 1.00 0.00
ATOM 200	CA	LEU A	18 139.607	4.918	1.913 1.00 0.00
ATOM 201	С	LEU A	18 140.527	6.030	2.407 1.00 0.00
ATOM 202	0	LEU A	18 140.851	6.956	1.663 1.00 0.00
ATOM 203	CB	LEU A	18 140.160	4.320	0.618 1.00 0.00
ATOM 204	CG	LEU A	18 139.326	3.186	0.021 1.00 0.00
ATOM 205	CD1	LEU A	18 139.476	3.153	-1.493 1.00 0.00
ATOM 206	CD2	LEU A	18 139.730	1.851	0.628 1.00 0.00
ATOM 207	H	LEU A	18 138.075	6.012	0.944 1.00 0.00
ATOM 208	HA	LEU A	18 139.562	4.144	2.665 1.00 0.00
ATOM 209	1HB	LEU A	18 140.234	5.111	-0.115 1.00 0.00
ATOM 210	2HB	LEU A	18 141.151	3.942	0.815 1.00 0.00
ATOM 211	HG	LEU A	18 138.283	3.356	0.248 1.00 0.00
ATOM 212	1HD	1 LEU A	18 139.372	2.136	-1.842 1.00 0.00
ATOM 213	2HD	1 LEU A	18 140.451	3.528	-1.766 1.00 0.00

ATOM 214	3HD1	LEU A	18 138.713	3.768	-1.944 1.00 0.00
ATOM 215	1HD2	LEU A	18 140.757	1.903	0.959 1.00 0.00
ATOM 216	2HD2	LEU A	18 139.629	1.073	-0.113 1.00 0.00
ATOM 217	3HD2	LEU A	18 139.092	1.630	1.471 1.00 0.00
ATOM 218	N	GLU A	19 140.945	5.931	3.664 1.00 0.00
ATOM 219	CA	GLU A	19 141.830	6.927	4.257 1.00 0.00
ATOM 220	С	GLU A	19 142.859	6.267	5.168 1.00 0.00
ATOM 221	0	GLU A	19 142.811	5.059	5.403 1.00 0.00
ATOM 222	СВ	GLU A	19 141.017	7.954	5.047 1.00 0.00
ATOM 223	CG	GLU A	19 140.018	7.331	6.010 1.00 0.00
ATOM 224	CD	GLU A	19 138.580	7.626	5.632 1.00 0.00
ATOM 225	OE1	GLU A	19 138.293	8.777	5.240 1.00 0.00
ATOM 226	0E2	GLU A	19 137.741	6.705	5.727 1.00 0.00
ATOM 227	Н	GLU A	19 140.653	5.168	4.207 1.00 0.00
ATOM 228	HA	GLU A	19 142.347	7.431	3.454 1.00 0.00
ATOM 229	1HB	GLU A	19 141.696	8.573	5.617 1.00 0.00
ATOM 230	2HB	GLU A	19 140.474	8.579	4.353 1.00 0.00
ATOM 231	1HG	GLU A	19 140.161	6.261	6.013 1.00 0.00
ATOM 232	2HG	GLU A	19 140.202	7.721	7.000 1.00 0.00
ATOM 233	N	VAL A	20 143.791	7.066	5.679 1.00 0.00
ATOM 234	CA	VAL A	20 144.831	6.559	6.564 1.00 0.00
ATOM 235	С	VAL A	20 144.232	5.988	7.845 1.00 0.00
ATOM 236	0	VAL A	20 143.373	6.610	8.471 1.00 0.00
ATOM 237	CB	VAL A	20 145.845	7.660	6.930 1.00 0.00
ATOM 238	CG1	VAL A	20 147.003	7.079	7.729 1.00 0.00
ATOM 239	CG2	VAL A	20 146.352	8.359	5.677 1.00 0.00
ATOM 240	H	VAL A	20 143.776	8.020	5.455 1.00 0.00
ATOM 241	HA	VAL A	20 145.358	5.773	6.043 1.00 0.00
ATOM 242	ΗВ	VAL A	20 145.345	8.392	7.547 1.00 0.00

ATOM 243	1HG1	VAL A	20 147.813	7.792	7.760 1.00 0.00
ATOM 244	2HG1	VAL A	20 147.342	6.167	7.260 1.00 0.00
ATOM 245	3HG1	VAL A	20 146.674	6.864	8.735 1.00 0.00
ATOM 246	1HG2	VAL A	20 146.407	9.423	5.856 1.00 0.00
ATOM 247	2HG2	VAL A	20 145.676	8.167	4.858 1.00 0.00
ATOM 248	3HG2	VAL A	20 147.335	7.985	5.429 1.00 0.00
ATOM 249	N	GLY A	21 144.691	4.802	8.230 1.00 0.00
ATOM 250	CA	GLY A	21 144.189	4.168	9.435 1.00 0.00
ATOM 251	C	GLY A	21 143.139	3.114	9.141 1.00 0.00
ATOM 252	0	GLY A	21 142.996	2.145	9.887 1.00 0.00
ATOM 253	Н	GLY A	21 145.376	4.354	7.691 1.00 0.00
ATOM 254	1HA	GLY A	21 145.013	3.703	9.954 1.00 0.00
ATOM 255	2HA	GLY A	21 143.756	4.923	10.072 1.00 0.00
ATOM 256	N	SER A	22 142.400	3.304	8.051 1.00 0.00
ATOM 257	CA	SER A	22 141.358	2.363	7.661 1.00 0.00
ATOM 258	С	SER A	22 141.934	1.233	6.815 1.00 0.00
ATOM 259	0	SER A	22 142.916	1.420	6.095 1.00 0.00
ATOM 260	CB	SER A	22 140.255	3.084	6.886 1.00 0.00
ATOM 261	OG	SER A	22 139.291	3.639	7.764 1.00 0.00
ATOM 262	H	SER A	22 142.561	4.097	7.498 1.00 0.00
ATOM 263	HA	SER A	22 140.936	1.943	8.563 1.00 0.00
ATOM 264	1HB	SER A	22 140.690	3.882	6.302 1.00 0.00
ATOM 265	2HB	SER A	22 139.763	2.384	6.227 1.00 0.00
ATOM 266	HG	SER A	22 139.736	4.075	8.494 1.00 0.00
ATOM 267	N	LEU A	23 141.319	0.059	6.906 1.00 0.00
ATOM 268	CA	LEU A	23 141.771	-1.103	6.149 1.00 0.00
ATOM 269	С	LEU A	23 141.219	-1.074	4.727 1.00 0.00
ATOM 270	0	LEU A	23 140.087	-0.646	4.499 1.00 0.00
ATOM 271	CB	LEU A	23 141.341	-2.394	6.849 1.00 0.00

ATOM 272	CG	LEU A	23 142.012	-2.651	8.199 1.00 0.00
ATOM 273	CD1	LEU A	23 141.094	-3.458	9.106 1.00 0.00
ATOM 274	CD2	LEU A	23 143.339	-3.369	8.005 1.00 0.00
ATOM 275	Н	LEU A	23 140.542	-0.029	7.497 1.00 0.00
ATOM 276	HA	LEU A	23 142.849	-1.070	6.104 1.00 0.00
ATOM 277	1HB	LEU A	23 140.273	-2.356	7.002 1.00 0.00
ATOM 278	2HB	LEU A	23 141.566	-3.224	6.197 1.00 0.00
ATOM 279	HG	LEU A	23 142.211	-1.706	8.682 1.00 0.00
ATOM 280	1HD1	LEU A	23 140.445	-4.074	8.503 1.00 0.00
ATOM 281	2HD1	LEU A	23 140.499	-2.784	9.705 1.00 0.00
ATOM 282	3HD1	LEU A	23 141.689	-4.085	9.753 1.00 0.00
ATOM 283	1HD2	LEU A	23 143.169	-4.436	7.969 1.00 0.00
ATOM 284	2HD2	LEU A	23 143.997	-3.138	8.830 1.00 0.00
ATOM 285	3HD2	E LEU A	23 143.792	-3.046	7.080 1.00 0.00
ATOM 286	N	ALA A	24 142.025	-1.531	3.776 1.00 0.00
ATOM 287	CA	ALA A	24 141.617	-1.558	2.376 1.00 0.00
ATOM 288	С	ALA A	24 142.162	-2.794	1.669 1.00 0.00
ATOM 289	0	ALA A	24 143.002	-3.511	2.211 1.00 0.00
ATOM 290	СВ	ALA A	24 142.082	-0.294	1.668 1.00 0.00
ATOM 291	H	ALA A	24 142.916	-1.859	4.019 1.00 0.00
ATOM 292	HA	ALA A	24 140.538	-1.584	2.345 1.00 0.00
ATOM 293	1HB	ALA A	24 143.093	-0.432	1.314 1.00 0.00
ATOM 294	2HB	ALA A	24 142.051	0.537	2.357 1.00 0.00
ATOM 295	3HB	ALA A	24 141.432	-0.091	0.830 1.00 0.00
ATOM 296	N	GLU A	25 141.678	-3.036	0.456 1.00 0.00
ATOM 297	CA	GLU A	25 142.117	-4.186	-0.326 1.00 0.00
ATOM 298	C	GLU A	25 142.455	3.774	-1.756 1.00 0.00
ATOM 299	0	GLU A	25 141.823	3 -2.884	-2.323 1.00 0.00
ATOM 300	CB	GLU A	25 141.032	2 -5.265	-0.338 1.00 0.00

ATOM 301	CG	GLU A	25 141.479	-6.569	-0.978 1.00 0.00
ATOM 302	CD	GLU A	25 140.325	-7.520	-1.231 1.00 0.00
ATOM 303	0E1	GLU A	25 140.422	-8.335	-2.172 1.00 0.00
ATOM 304	0E2	GLU A	25 139.324	-7.450	-0.486 1.00 0.00
ATOM 305	H	GLU A	25 141.010	-2.427	0.076 1.00 0.00
ATOM 306	HA	GLU A	25 143.004	-4.585	0.140 1.00 0.00
ATOM 307	1HB	GLU A	25 140.736	-5.472	0.680 1.00 0.00
ATOM 308	2HB	GLU A	25 140.178	-4.896	-0.885 1.00 0.00
ATOM 309	1HG	GLU A	25 141.955	-6.348	-1.921 1.00 0.00
ATOM 310	2HG	GLU A	25 142.188	-7.053	-0.323 1.00 0.00
ATOM 311	N	VAL A	26 143.459	-4.429	-2.333 1.00 0.00
ATOM 312	CA	VAL A	26 143.882	-4.131	-3.695 1.00 0.00
ATOM 313	C	VAL A	26 143.519	-5.267	-4.644 1.00 0.00
ATOM 314	0	VAL A	26 143.657	-6.442	-4.305 1.00 0.00
ATOM 315	CB	VAL A	26 145.400	-3.881	-3.770 1.00 0.00
ATOM 316	CG1	VAL A	26 145.791	-3.373	-5.149 1.00 0.00
ATOM 317	CG2	VAL A	26 145.833	-2.901	-2.690 1.00 0.00
ATOM 318	H	VAL A	26 143.925	-5.129	-1.829 1.00 0.00
ATOM 319	HA	VAL A	26 143.374	-3.233	-4.014 1.00 0.00
ATOM 320	HB	VAL A	26 145.908	-4.819	-3.600 1.00 0.00
ATOM 321	1HG	l VAL A	26 145.889	-2.297	-5.123 1.00 0.00
ATOM 322	2HG	l VAL A	26 145.030	-3.648	-5.864 1.00 0.00
ATOM 323	3HG:	ı VAL A	26 146.734	-3.812	-5.440 1.00 0.00
ATOM 324	1HG	2 VAL A	26 145.367	-3.169	-1.753 1.00 0.00
ATOM 325	2HG	2 VAL A	26 145.533	-1.902	-2.968 1.00 0.00
ATOM 326	3HG	2 VAL A	26 146.907	-2.938	-2.582 1.00 0.00
ATOM 327	N	LYS A	27 143.052	-4.909	-5.837 1.00 0.00
ATOM 328	CA	LYS A	27 142.669	-5.900	-6.836 1.00 0.00
ATOM 329	С	LYS A	27 143.868	-6.308	-7.685 1.00 0.00

ATOM 330	0	LYS A	27 144.189	-5.657	-8.680 1.00 0.00
ATOM 331	СВ	LYS A	27 141.557	-5.347	-7.731 1.00 0.00
ATOM 332	CG	LYS A	27 140.454	-6.352	-8.020 1.00 0.00
ATOM 333	CD	LYS A	27 139.652	-6.674	-6.770 1.00 0.00
ATOM 334	CE	LYS A	27 138.931	-5.445	-6.239 1.00 0.00
ATOM 335	NZ	LYS A	27 139.738	-4.727	-5.213 1.00 0.00
ATOM 336	Н	LYS A	27 142.964	-3.957	-6.049 1.00 0.00
ATOM 337	HA	LYS A	27 142.299	-6.770	-6.315 1.00 0.00
ATOM 338	1HB	LYS A	27 141.115	-4.489	-7.248 1.00 0.00
ATOM 339	2HB	LYS A	27 141.988	-5.037	-8.672 1.00 0.00
ATOM 340	1HG	LYS A	27 139.790	-5.939	-8.765 1.00 0.00
ATOM 341	2HG	LYS A	27 140.898	-7.262	-8.397 1.00 0.00
ATOM 342	1HD	LYS A	27 138.922	-7.433	-7.007 1.00 0.00
ATOM 343	2HD	LYS A	27 140.324	-7.043	-6.008 1.00 0.00
ATOM 344	1HE	LYS A	27 138.735	-4.775	-7.063 1.00 0.00
ATOM 345	2HE	LYS A	27 137.996	-5.755	-5.797 1.00 0.00
ATOM 346	1HZ	LYS A	27 140.748	-4.947	-5.335 1.00 0.00
ATOM 347	2HZ	LYS A	27 139.443	-5.018	-4.260 1.00 0.00
ATOM 348	3HZ	LYS A	27 139.603	-3.701	-5.308 1.00 0.00
ATOM 349	N	GLU A	28 144.529	-7.390	-7.286 1.00 0.00
ATOM 350	CA	GLU A	28 145.694	-7.886	-8.010 1.00 0.00
ATOM 351	С	GLU A	28 145.709	-9.411	-8.036 1.00 0.00
ATOM 352	0	GLU A	28 144.797	-10.059	-7.525 1.00 0.00
ATOM 353	CB	GLU A	28 146.980	-7.360	-7.368 1.00 0.00
ATOM 354	CG	GLU A	28 147.981	-6.812	-8.372 1.00 0.00
ATOM 355	CD	GLU A	28 149.350	-6.580	-7.762 1.00 0.00
ATOM 356	0E1	GLU A	28 149.538	-5.534	-7.106 1.00 0.00
ATOM 357	0E2	GLU A	28 150.233	-7.446	-7.941 1.00 0.00
ATOM 358	Н	GLU A	28 144.225	-7.867	-6.485 1.00 0.00

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-7.520
                                            -9.024 1.00 0.00
                GLU A
                       28 145.633
ATOM 359
           HA
                                            -6.677 1.00 0.00
                                    -6.570
ATOM 360
                GLU A
                       28 146.727
           1HB
                                    -8.164
                                            -6.824 1.00 0.00
ATOM 361
                GLU A
                        28 147.453
           2HB
                                   -7.517
                                            -9.183 1.00 0.00
                        28 148.080
ATOM 362
           1HG
                GLU A
                                   -5.873
                                            -8.755 1.00 0.00
ATOM 363
           2HG
                GLU A
                        28 147.609
                                   -9.977
                                            -8.635 1.00 0.00
ATOM 364
           N
                ASN A
                        29 146.752
                                            -8.726 1.00 0.00
ATOM 365
           CA
                ASN A
                        29 146.886 -11.426
                        29 146.958 -12.052
                                           -7.335 1.00 0.00
ATOM 366
           C
                ASN A
                                           -6.974 1.00 0.00
ATOM 367
           0
                ASN A
                        29 146.123 -12.880
           CB
                 ASN A
                        29 148.133 -11.794 -9.533 1.00 0.00
ATOM 368
           CG
                 ASN A
                        29 147.812 -12.105 -10.982 1.00 0.00
ATOM 369
                        29 147.758 -13.268 -11.382 1.00 0.00
ATOM 370
           0D1
                 ASN A
                        29 147.598 -11.063 -11.777 1.00 0.00
                 ASN A
ATOM 371
            ND2
                        29 147.448 -9.407 -9.023 1.00 0.00
ATOM 372
            Η
                 ASN A
                        29 146.013 -11.808 -9.235 1.00 0.00
            HA
                 ASN A
ATOM 373
                        29 148.828 -10.969 -9.507 1.00 0.00
 ATOM 374
                 ASN A
            1HB
                        29 148.597 -12.664 -9.092 1.00 0.00
            2HB
                 ASN A
 ATOM 375
                        29 147.658 -10.166 -11.389 1.00 0.00
            1HD2 ASN A
 ATOM 376
                        29 147.388 -11.235 -12.719 1.00 0.00
            2HD2 ASN A
 ATOM 377
                         30 147.964 -11.661
                                            -6.533 1.00 0.00
                 PRO A
 ATOM 378
            N
                                            -5.177 1.00 0.00
                 PRO A
                         30 148.142 -12.186
 ATOM 379
            CA
                                            -4.180 1.00 0.00
            C
                         30 147.167 -11.559
                 PRO A
 ATOM 380
                         30 147.291 -10.383
                                            -3.839 1.00 0.00
 ATOM 381
            0
                 PRO A
            CB
                         30 149.577 -11.785
                                             -4.840 1.00 0.00
 ATOM 382
                 PRO A
                         30 149.809 -10.537
                                             -5.617 1.00 0.00
 ATOM 383
            CG
                 PRO A
                                             -6.885 1.00 0.00
 ATOM 384
            CD
                 PRO A
                         30 149.006 -10.676
                                             -5.151 1.00 0.00
 ATOM 385
                 PRO A
                         30 148.048 -13.261
            HA
                 PRO A
                         30 149.666 -11.614
                                             -3.777 1.00 0.00
 ATOM 386
             1HB
                         30 150.254 -12.571 -5.143 1.00 0.00
 ATOM 387
             2HB
                 PRO A
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PRO A
                                            -5.050 1.00 0.00
ATOM 388
           1HG
                        30 149.468 -9.684
                        30 150.859 -10.438
                                            -5.849 1.00 0.00
ATOM 389
                PRO A
           2HG
                                             -7.156 1.00 0.00
ATOM 390
                PRO A
                        30 148.564 -9.730
           1HD
                                             -7.685 1.00 0.00
                PRO A
                        30 149.628 -11.045
ATOM 391
           2HD
                                             -3.697 1.00 0.00
                        31 146.181 -12.338
ATOM 392
           N
                 PRO A
                                             -2.736 1.00 0.00
                        31 145.190 -11.843
ATOM 393
           CA
                 PRO A
                                             -1.360 1.00 0.00
           C
                        31 145.794 -11.586
ATOM 394
                 PRO A
                                             -0.606 1.00 0.00
ATOM 395
           0
                 PRO A
                        31 146.067 -12.521
                                             -2.667 1.00 0.00.
ATOM 396
            CB
                 PRO A
                        31 144.165 -12.976
                        31 144.925 -14.198
                                             -3.043 1.00 0.00
ATOM 397
            CG
                 PRO A
                                             -4.044 1.00 0.00
                 PRO A
                        31 145.955 -13.754
ATOM 398
            CD
                                             -3.091 1.00 0.00
                        31 144.712 -10.941
ATOM 399
            HA
                 PRO A
                                             -1.663 1.00 0.00
                        31 143.770 -13.047
ATOM 400
            1HB
                 PRO A
                                             -3.362 1.00 0.00
                        31 143.361 -12.782
ATOM 401
            2HB
                 PRO A
                                             -2.170 1.00 0.00
ATOM 402
            1HG
                 PRO A
                         31 145.408 -14.615
                                             -3.487 1.00 0.00
ATOM 403
            2HG
                 PRO A
                         31 144.260 -14.924
ATOM 404
            1HD
                 PRO A
                         31 146.863 -14.327
                                             -3.934 1.00 0.00
                                              -5.048 1.00 0.00
ATOM 405
            2HD
                 PRO A
                         31 145.569 -13.846
                                              -1.038 1.00 0.00
 ATOM 406
            N
                 PHE A
                         32 146.001 -10.313
                                              0.248 1.00 0.00
 ATOM 407
            CA
                 PHE A
                         32 146.574 -9.933
                                               0.935 1.00 0.00
            C
                 PHE A
                         32 145.715
                                     -8.877
 ATOM 408
                 PHE A
                         32 144.802
                                     -8.315
                                               0.330 1.00 0.00
 ATOM 409
            0
                                     -9.406
                                               0.061 1.00 0.00
            CB
                  PHE A
                         32 147.998
 ATOM 410
                                              -1.023 1.00 0.00
            CG
                  PHE A
                         32 148.118
                                     -8.373
 ATOM 411
                 PHE A
                                              -2.186 1.00 0.00
                                      -8.648
 ATOM 412
            CD1
                         32 148.820
                                              -0.877 1.00 0.00
                  PHE A
                         32 147.530
                                     -7.127
 ATOM 413
            CD2
                                              -3.184 1.00 0.00
                  PHE A
                         32 148.933
                                     -7.700
 ATOM 414
            CE1
                                              -1.873 1.00 0.00
                  PHE A
                         32 147.641
                                      -6.173
 ATOM 415
             CE2
 ATOM 416
                                              -3.028 1.00 0.00
             CZ
                  PHE A
                         32 148.342
                                    -6.460
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ATOM 417	H	PHE A	32 145.764 -9.6	13 -1.680 1.00 0.00
ATOM 418	HA	PHE A	32 146.606 -10.8	15 0.870 1.00 0.00
ATOM 419	1HB	PHE A	32 148.333 -8.9	59 0.985 1.00 0.00
ATOM 420	2HB	PHE A	32 148.649 -10.2	31 -0.190 1.00 0.00
ATOM 421	HD1	PHE A	32 149.281 -9.6	-2.308 1.00 0.00
ATOM 422	HD2	PHE A	32 146.982 -6.9	0.025 1.00 0.00
ATOM 423	HE1	PHE A	32 149.483 -7.9	927 -4.086 1.00 0.00
ATOM 424	HE2	PHE A	32 147.178 -5.2	206 -1.748 1.00 0.00
ATOM 425	HZ	PHE A	32 148.429 -5.7	718 -3.807 1.00 0.00
ATOM 426	N	TYR A	33 146.012 -8.6	2.203 1.00 0.00
ATOM 427	CA	TYR A	33 145.266 -7.6	2.973 1.00 0.00
ATOM 428	С	TYR A	33 146.213 -6.6	3.708 1.00 0.00
ATOM 429	0	TYR A	33 147.222 -7.	110 4.269 1.00 0.00
ATOM 430	СВ	TYR A	33 144.340 -8.3	318 3.973 1.00 0.00
ATOM 431	CG	TYR A	33 143.079 -8.	869 3.348 1.00 0.00
ATOM 432	CD1	TYR A	33 142.709 -10.	196 3.538 1.00 0.00
ATOM 433	CD2	TYR A	33 142.257 -8.	064 2.568 1.00 0.00
ATOM 434	CE1	TYR A	33 141.557 -10.	703 2.969 1.00 0.00
ATOM 435	CE2	TYR A	33 141.103 -8.	566 1.996 1.00 0.00
ATOM 436	CZ	TYR A	33 140.758 -9.	885 2.199 1.00 0.00
ATOM 437	ОН	TYR A	33 139.610 -10.	387 1.630 1.00 0.00
ATOM 438	Н	TYR A	33 146.751 -9.	094 2.631 1.00 0.00
ATOM 439	HA	TYR A	33 144.669 -7.	047 2.282 1.00 0.00
ATOM 440	1HB	TYR A	33 144.869 -9.	139 4.432 1.00 0.00
ATOM 441	2HB	TYR A	33 144.051 -7.	610 4.736 1.00 0.00
ATOM 442	HD1	TYR A	33 143.337 -10.	833 4.141 1.00 0.00
ATOM 443	HD2	TYR A	33 142.531 -7.	032 2.411 1.00 0.00
ATOM 444	HE1	TYR A	33 141.286 -11.	737 3.127 1.00 0.00
ATOM 445	HE2	TYR A	33 140.477 -7.	924 1.393 1.00 0.00

ATOM 446	HH	TYR A	33 139.802 -	-11.228	1.209 1.00 0.00
ATOM 447	N	GLY A	34 145.881	-5.394	3.704 1.00 0.00
ATOM 448	CA	GLY A	34 146.711	-4.411	4.374 1.00 0.00
ATOM 449	C	GLY A	34 145.948	-3.149	4.725 1.00 0.00
ATOM 450	0	GLY A	34 144.896	-2.873	4.150 1.00 0.00
ATOM 451	H	GLY A	34 145.066	-5.109	3.241 1.00 0.00
ATOM 452	1HA	GLY A	34 147.103	-4.846	5.282 1.00 0.00
ATOM 453	2HA	GLY A	34 147.537	-4.151	3.727 1.00 0.00
ATOM 454	N	VAL A	35 146.480	-2.382	5.671 1.00 0.00
ATOM 455	CA	VAL A	35 145.842	-1.143	6.098 1.00 0.00
ATOM 456	C	VAL A	35 146.536	0.070	5.486 1.00 0.00
ATOM 457	0	VAL A	35 147.743	0.052	5.247 1.00 0.00
ATOM 458	CB	VAL A	35 145.848	-1.009	7.635 1.00 0.00
ATOM 459	CG1	VAL A	35 147.273	-0.996	8.169 1.00 0.00
ATOM 460	CG2	VAL A	35 145.095	0.240	8.067 1.00 0.00
ATOM 461	Н	VAL A	35 147.322	-2.656	6.092 1.00 0.00
ATOM 462	HA	VAL A	35 144.816	-1.165	5.763 1.00 0.00
ATOM 463	ΗВ	VAL A	35 145.342	-1.869	8.050 1.00 0.00
ATOM 464	1HG	1 VAL A	35 147.344	-0.295	8.987 1.00 0.00
ATOM 465	2HG	1 VAL A	35 147.950	-0.699	7.381 1.00 0.00
ATOM 466	3HG	1 VAL A	35 147.536	-1.984	8.516 1.00 0.00
ATOM 467	1HG	2 VAL A	35 145.576	1.113	7.652 1.00 0.00
ATOM 468	2HG	2 VAL A	35 145.096	0.307	9.145 1.00 0.00
ATOM 469	3HG	2 VAL A	35 144.076	0.188	7.712 1.00 0.00
ATOM 470	N	ILE A	36 145.764	1.122	5.233 1.00 0.00
ATOM 471	CA	ILE A	36 146.305	2.343	4.648 1.00 0.00
ATOM 472	С	ILE A	36 147.257	3.039	5.615 1.00 0.00
ATOM 473	0	ILE A	36 147.061	3.001	6.830 1.00 0.00
ATOM 474	СВ	ILE A	36 145.182	3.324	4.253 1.00 0.00

ATOM 475	CG1	ILE A	36 144.129	2.611	3.400 1.00 0.00
ATOM 476	CG2	ILE A	36 145.758	4.516	3.505 1.00 0.00
ATOM 477	CD1	ILE A	36 142.990	3.510	2.971 1.00 0.00
ATOM 478	Н	ILE A	36 144.808	1.075	5.445 1.00 0.00
ATOM 479	HA	ILE A	36 146.848	2.073	3.754 1.00 0.00
ATOM 480	HB	ILE A	36 144.717	3.687	5.157 1.00 0.00
ATOM 481	1HG1	ILE A	36 144.599	2.224	2.509 1.00 0.00
ATOM 482	2HG1	ILE A	36 143.711	1.791	3.967 1.00 0.00
ATOM 483	1HG2	ILE A	36 146.253	5.174	4.204 1.00 0.00
ATOM 484	2HG2	ILE A	36 144.960	5.051	3.011 1.00 0.00
ATOM 485	3HG2	ILE A	36 146.469	4.172	2.770 1.00 0.00
ATOM 486	1HD1	ILE A	36 142.253	3.558	3.759 1.00 0.00
ATOM 487	2HD1	ILE A	36 142.535	3.111	2.076 1.00 0.00
ATOM 488	3HD1	ILE A	36 143.369	4.500	2.772 1.00 0.00
ATOM 489	N	ARG A	37 148.287	3.674	5.067 1.00 0.00
ATOM 490	CA	ARG A	37 149.271	4.379	5.882 1.00 0.00
ATOM 491	С	ARG A	37 149.476	5.804	5.378 1.00 0.00
ATOM 492	0	ARG A	37 149.174	6.769	6.080 1.00 0.00
ATOM 493	CB	ARG A	37 150.604	3.626	5.872 1.00 0.00
ATOM 494	CG	ARG A	37 150.463	2.137	6.139 1.00 0.00
ATOM 495	CD	ARG A	37 149.863	1.870	7.511 1.00 0.00
ATOM 496	NE NE	ARG A	37 150.865	1.945	8.571 1.00 0.00
ATOM 497	CZ	ARG A	37 150.616	1.661	9.847 1.00 0.00
ATOM 498	NH1	ARG A	37 149.401	1.284	.10.226 1.00 0.00
ATOM 499	NH2	ARG A	37 151.585	1.755	10.749 1.00 0.00
ATOM 500) H	ARG A	37 148.389	3.668	4.093 1.00 0.00
ATOM 501	L HA	ARG A	37 148.897	4.418	6.893 1.00 0.00
ATOM 502	2 1HB	ARG A	37 151.069	3.754	4.907 1.00 0.00
ATOM 503	3 2HB	ARG A	37 151.247	4.047	6.632 1.00 0.00

ATOM 504	1HG ARG	A	37 149.820	1.705	5.386 1.00 0.00
ATOM 505	2HG ARG	A	37 151.440	1.678	6.088 1.00 0.00
ATOM 506	1HD ARG	A	37 149.095	2.605	7.702 1.00 0.00
ATOM 507	2HD ARG	A	37 149.424	0.883	7.511 1.00 0.00
ATOM 508	HE ARG	A	37 151.770	2.221	8.319 1.00 0.00
ATOM 509	1HH1 ARG	A	37 148.667	1.211	9.551 1.00 0.00
ATOM 510	2HH1 ARG	A	37 149.221	1.071	11.187 1.00 0.00
ATOM 511	1HH2 ARG	A	37 152.502	2.039	10.469 1.00 0.00
ATOM 512	2HH2 ARG	A	37 151.398	1.542	11.707 1.00 0.00
ATOM 513	N TRP	A	38 149.989	5.929	4.158 1.00 0.00
ATOM 514	CA TRP	A	38 150.233	7.238	3.563 1.00 0.00
ATOM 515	C TRP	A	38 149.491	7.382	2.237 1.00 0.00
ATOM 516	0 TRP	A	38 149.514	6.481	1.399 1.00 0.00
ATOM 517	CB TRP	A	38 151.735	7.456	3.349 1.00 0.00
ATOM 518	CG TRP	A	38 152.054	8.673	2.533 1.00 0.00
ATOM 519	CD1 TRP	A	38 152.277	9.938	2.997 1.00 0.00
ATOM 520	CD2 TRP	A	38 152.180	8.741	1.107 1.00 0.00
ATOM 521	NE1 TRP	A	38 152.534	10.787	1.947 1.00 0.00
ATOM 522	CE2 TRP	Α	38 152.480	10.075	0.777 1.00 0.00
ATOM 523	CE3 TRP	Α	38 152.068	7.801	0.079 1.00 0.00
ATOM 524	CZ2 TRP	Α	38 152.669	10.492	-0.540 1.00 0.00
ATOM 525	CZ3 TRP	A	38 152.256	8.216	-1.226 1.00 0.00
ATOM 526	CH2 TRP	A	38 152.554	9.551	-1.526 1.00 0.00
ATOM 527	H TRP	A	38 150.208	5.122	3.646 1.00 0.00
ATOM 528	HA TRE	A	38 149.865	7.987	4.249 1.00 0.00
ATOM 529	1HB TRE	A	38 152.215	7.565	4.310 1.00 0.00
ATOM 530	2HB TRF	A	38 152.147	6.595	2.842 1.00 0.00
ATOM 531	HD1 TRF	A	38 152.251	10.216	4.039 1.00 0.00
ATOM 532	HE1 TRE	P A	38 152.725	11.746	2.023 1.00 0.00

ATOM 5	33	HE3	TRP	A	38	151.8	338	6.76	9 (). 289	1.00	0.00
ATOM 5	34	HZ2	TRP	A	38	152.8	396	11.51	8 -(). 788	1.00	0.00
ATOM 5	35	HZ3	TRP	A	38	152.	173	7.50	3 –2	2.034	1.00	0.00
ATOM 5	36	HH2	TRP	A	38	152.6	693	9.82	9 –	2.560	1.00	0.00
ATOM 5	37	N	ILE	A	39	148.8	842	8.52	7	2.055	1.00	0.00
ATOM 5	38	CA	ILE	A	39	148.	100	8.80	3 (0.831	1.00	0.00
ATOM 5	39	С	ILE	A	39	148.	544	10.12	27	0.223	1.00	0.00
ATOM 5	40	0	ILE	A	39	148.	213	11.19	7	0.735	1.00	0.00
ATOM 5	541	CB	ILE	A	39	146.	583	8.85	51	1.090	1.00	0.00
ATOM 5	542	CG1	ILE	A	39	146.	137	7.61	.9	1.880	1.00	0.00
ATOM 5	543	CG2	ILE	A	39	145.	824	8.94	l6 –	0.225	1.00	0.00
ATOM 5	544	CD1	ILE	A	39	144.	728	7.72	25	2.420	1.00	0.00
ATOM 5	545	Н	ILE	Α	39	148.	868	9.20)7	2.760	1.00	0.00
ATOM 5	546	HA	ILE	A	39	148.	302	8.00)7	0.129	1.00	0.00
ATOM 5	547	HB	ILE	A	39	146.	366	9.73	37	1.667	1.00	0.00
ATOM 5	548	1HG1	ILE	A	39	146.	182	6.7	52	1.239	1.00	0.00
ATOM 5	549	2HG1	ILE	A	39	146.	804	7.4	76	2.717	1.00	0.00
ATOM 5	550	1HG2	ILE	A	39	146.	045	8.0	80 -	0.832	1.00	0.00
ATOM 5	551	2HG2	ILE	A	39	146.	125	9.8	40 -	0.752	1.00	0.00
ATOM S	552	3HG2	ILE	A	39	144.	763	8.9	86 -	0.028	1.00	0.00
ATOM !	553	1HD1	ILE	A	39	144.	041	7.2	63	1.727	1.00	0.00
MOTA	554	2HD1	ILE	A	39	144.	468	8.7	65	2.547	1.00	0.00
MOTA	555	3HD1	ILE	A	39	144.	669	7.2	21	3.374	1.00	0.00
ATOM !	556	N	GLY	A	40	149.	303	10.0	51 -	-0.866	1.00	0.00
ATOM	557	CA	GLY	A	40	149.	784	11.2	56 -	-1.513	1.00	0.00
ATOM !	558	C	GLY	A	40	150.	325	11.0	00 -	-2.905	1.00	0.00
ATOM	559	0	GLY	Α	40	150.	197	9.8	96 -	-3.437	1.00	0.00
ATOM	560	H	GLY	Α	40	149.	542	9.1	72 -	-1.228	1.00	0.00
ATOM	561	1HA	GLY	Α	40	148.	973	11.9	63 -	-1.580	1.00	0.00

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-0.909 1.00 0.00
ATOM 562
           2HA
                GLY A
                       40 150.569
                                    11.684
                        41 150.931
                                    12.024
                                             -3.494 1.00 0.00
ATOM 563
                GLN A
           N
                                             -4.833 1.00 0.00
ATOM 564
                GLN A
                        41 151.497
                                    11.918
           CA
                                             -4.832 1.00 0.00
                 GLN A
                        41 152.964
                                    12.346
ATOM 565
           C
                                             -4.574 1.00 0.00
                        41 153.276
                                    13.509
ATOM 566
           0
                 GLN A
                                             -5.807 1.00 0.00
                                     12.783
                 GLN A
                        41 150.698
ATOM 567
           CB
                                             -5.716 1.00 0.00
                 GLN A
                        41 149.196
                                     12.573
ATOM 568
            CG
                                             -5.845 1.00 0.00
                                     13.867
ATOM 569
            CD
                 GLN A
                        41 148.417
                                             -4.914 1.00 0.00
ATOM 570
            0E1
                 GLN A
                        41 148.369
                                     14.671
                        41 147.802
                                     14.074
                                             -7.002 1.00 0.00
ATOM 571
            NE2
                 GLN A
                                             -3.016 1.00 0.00
                                     12.876
            H
                 GLN A
                        41 150.998
ATOM 572
                                     10.886
                                             -5.142 1.00 0.00
            HA
                 GLN A
                        41 151.430
ATOM 573
                                             -5.600 1.00 0.00
                                     13.822
ATOM 574
            1HB
                 GLN A
                        41 150.906
                                             -6.814 1.00 0.00
                                     12.556
ATOM 575
            2HB
                 GLN A
                        41 151.013
                                             -6.508 1.00 0.00
ATOM 576
            1HG
                 GLN A
                        41 148.889
                                     11.906
                                             -4.761 1.00 0.00
ATOM 577
            2HG
                 GLN A
                        41 148.965
                                     12.125
ATOM 578
            1HE2 GLN A
                         41 147.884
                                     13.389
                                              -7.698 1.00 0.00
                                              -7.114 1.00 0.00
ATOM 579
            2HE2 GLN A
                         41 147.291
                                     14.902
                                     11.412
                                              -5.117 1.00 0.00
ATOM 580
            N
                 PRO A
                         42 153.889
                                              -5.142 1.00 0.00
 ATOM 581
            CA
                 PRO A
                         42 155.326
                                     11.708
                                              -6.1221.000.00
 ATOM 582
            C
                 PRO A
                         42 155.671
                                      12.825
                 PRO A
                         42 154.902
                                      13.119
                                              -7.038 1.00 0.00
 ATOM 583
            0
 ATOM 584
                         42 155.961
                                      10.387
                                              -5.590 1.00 0.00
            CB
                 PRO A
                                       9.346
                                              -5.249 1.00 0.00
 ATOM 585
            CG
                  PRO A
                         42 154.953
                                              -5.435 1.00 0.00
            CD
                  PRO A
                         42 153.614
                                      10.000
 ATOM 586
                                              -4.160 1.00 0.00
 ATOM 587
            HA
                  PRO A
                         42 155.691
                                      11.970
                                              -6.653 1.00 0.00
 ATOM 588
             1HB
                  PRO A
                         42 156.152
                                      10.420
                                      10.230
                                              -5.057 1.00 0.00
 ATOM 589
             2HB
                  PRO A
                         42 156.886
                  PRO A
                        42 155.054
                                       8.501
                                              -5.913 1.00 0.00
 ATOM 590
             1HG
```

ATOM 591	2HG	PRO A	42 155.078	9.034	-4.222 1.00 0.00
ATOM 592	1HD	PRO A	42 153.280	9.891	-6.457 1.00 0.00
ATOM 593	2HD	PRO A	42 152.891	9.583	-4.751 1.00 0.00
ATOM 594	N	PRO A	43 156.841	13.463	-5.943 1.00 0.00
ATOM 595	CA	PRO A	43 157.286	14.551	-6.816 1.00 0.00
ATOM 596	С	PRO A	43 157.707	14.053	-8.193 1.00 0.00
ATOM 597	0	PRO A	43 158.879	13.762	-8.429 1.00 0.00
ATOM 598	CB	PRO A	43 158.488	15.132	-6.072 1.00 0.00
ATOM 599	CG	PRO A	43 159.013	14.001	-5.259 1.00 0.00
ATOM 600	CD	PRO A	43 157.817	13.173	-4.876 1.00 0.00
ATOM 601	HA	PRO A	43 156.525	15.310	-6.925 1.00 0.00
ATOM 602	1HB	PRO A	43 159.220	15.481	-6.786 1.00 0.00
ATOM 603	2HB	PRO A	43 158.167	15.952	-5.447 1.00 0.00
ATOM 604	1HG	PRO A	43 159.702	13.414	-5.848 1.00 0.00
ATOM 605	2HG	PRO A	43 159.504	14.381	-4.375 1.00 0.00
ATOM 606	1HD	PRO A	43 158.074	12.124	-4.864 1.00 0.00
ATOM 607	2HD	PRO A	43 157.438	13.479	-3.913 1.00 0.00
ATOM 608	N	GLY A	44 156.742	13.956	-9.102 1.00 0.00
ATOM 609	CA	GLY A	44 157.035	13.493	-10.444 1.00 0.00
ATOM 610	С	GLY A	44 155.815	12.935	-11.146 1.00 0.00
ATOM 611	0	GLY A	44 155.511	13.319	-12.275 1.00 0.00
ATOM 612	Н	GLY A	44 155.826	14.202	-8.859 1.00 0.00
ATOM 613	1HA	GLY A	44 157.422	14.318	-11.021 1.00 0.00
ATOM 614	2HA	GLY A	44 157.789	12.721	-10.389 1.00 0.00
ATOM 615	N	LEU A	45 155.112	12.028	-10.476 1.00 0.00
ATOM 616	CA	LEU A	45 153.916	11.419	-11.047 1.00 0.00
ATOM 617	С	LEU A	45 152.704	11.673	-10.162 1.00 0.00
ATOM 618	0	LEU A	45 152.622	11.161	-9.045 1.00 0.00
ATOM 619	СВ	LEU A	45 154.123	9.914	-11.228 1.00 0.00

ATOM 620	CG LEU A	45 154.702	9.190 -10.012 1.00 0.00
ATOM 621	CD1 LEU A	45 154.398	7.699 -10.079 1.00 0.00
ATOM 622	CD2 LEU A	45 156.202	9.431 -9.913 1.00 0.00
ATOM 623	H LEU A	45 155.402	11.763 -9.577 1.00 0.00
ATOM 624	HA LEU A	45 153.744	11.868 -12.013 1.00 0.00
ATOM 625	1HB LEU A	45 153.168	9.467 -11.467 1.00 0.00
ATOM 626	2HB LEU A	45 154.792	9.761 -12.061 1.00 0.00
ATOM 627	HG LEU A	45 154.240	9.583 -9.116 1.00 0.00
ATOM 628	1HD1 LEU A	45 153.895	7.394 -9.174 1.00 0.00
ATOM 629	2HD1 LEU A	45 155.321	7.147 -10.182 1.00 0.00
ATOM 630	3HD1 LEU A	45 153.763	7.498 -10.930 1.00 0.00
ATOM 631	1HD2 LEU A	45 156.405	10.107 -9.095 1.00 0.00
ATOM 632	2HD2 LEU A	45 156.558	9.867 -10.836 1.00 0.00
ATOM 633	3HD2 LEU A	45 156.709	8.493 -9.739 1.00 0.00
ATOM 634	N ASN A	46 151.760	12.464 -10.662 1.00 0.00
ATOM 635	CA ASN A	46 150.556	12.771 -9.903 1.00 0.00
ATOM 636	C ASN A	46 149.628	11.563 -9.860 1.00 0.00
ATOM 637	O ASN A	46 149.007	11.207 -10.861 1.00 0.00
ATOM 638	CB ASN A	46 149.829	13.967 -10.521 1.00 0.00
ATOM 639	CG ASN	46 148.973	14.709 -9.514 1.00 0.00
ATOM 640	OD1 ASN	46 147.746	14.622 -9.540 1.00 0.00
ATOM 641	ND2 ASN	46 149.619	15.445 -8.617 1.00 0.00
ATOM 642	H ASN	A 46 151.875	12.844 -11.558 1.00 0.00
ATOM 643	HA ASN	A 46 150.852	13.021 -8.895 1.00 0.00
ATOM 644	1HB ASN	A 46 150.557	14.655 -10.922 1.00 0.00
ATOM 645	2HB ASN	A 46 149.191	13.619 -11.320 1.00 0.00
ATOM 646	1HD2 ASN	A 46 150.599	15.468 -8.655 1.00 0.00
ATOM 647	2HD2 ASN	A 46 149.091	15.936 -7.953 1.00 0.00
ATOM 648	N GLU	A 47 149.543	3 10.935 -8.693 1.00 0.00

ATOM 649	CA	GLU A	47 148.693	9.766	-8.511 1.00 0.00
ATOM 650	С	GLU A	47 148.523	9.444	-7.031 1.00 0.00
ATOM 651	0	GLU A	47 149.502	9.193	-6.327 1.00 0.00
ATOM 652	CB	GLU A	47 149.286	8.558	-9.243 1.00 0.00
ATOM 653	CG	GLU A	47 150.801	8.468	-9.150 1.00 0.00
ATOM 654	CD	GLU A	47 151.389	7.499 -	10.156 1.00 0.00
ATOM 655	OE1	GLU A	47 151.498	7.871 -	11.345 1.00 0.00
ATOM 656	OE2	GLU A	47 151.742	6.370	-9.757 1.00 0.00
ATOM 657	H	GLU A	47 150.064	11.268	-7.933 1.00 0.00
ATOM 658	HA	GLU A	47 147.725	9.991	-8.932 1.00 0.00
ATOM 659	1HB	GLU A	47 148.866	7.656	-8.820 1.00 0.00
ATOM 660	2HB	GLU A	47 149.014	8.615 -	-10.286 1.00 0.00
ATOM 661	1HG	GLU A	47 151.218	9.446	-9.329 1.00 0.00
ATOM 662	2HG	GLU A	47 151.070	8.140	-8.157 1.00 0.00
ATOM 663	N	VAL A	48 147.281	9.445	-6.564 1.00 0.00
ATOM 664	CA	VAL A	48 146.998	9.146	-5.167 1.00 0.00
ATOM 665	С	VAL A	48 147.382	7.708	-4.839 1.00 0.00
ATOM 666	0	VAL A	48 146.654	6.771	-5.164 1.00 0.00
ATOM 667	CB	VAL A	48 145.510	9.358	-4.832 1.00 0.00
ATOM 668	CG1	VAL A	48 145.280	9.261	-3.332 1.00 0.00
ATOM 669	CG2	VAL A	48 145.028	10.698	-5.367 1.00 0.00
ATOM 670	Н	VAL A	48 146.539	9.647	-7.171 1.00 0.00
ATOM 671	HA	VAL A	48 147.586	9.814	-4.555 1.00 0.00
ATOM 672	HB	VAL A	48 144.938	8.577	-5.311 1.00 0.00
ATOM 673	1H0	31 VAL A	48 146.009	9.870	-2.816 1.00 0.00
ATOM 674	2H0	31 VAL A	48 145.384	8.234	-3.018 1.00 0.00
ATOM 675	3H0	31 VAL A	48 144.286	9.612	-3.096 1.00 0.00
ATOM 676	1H(32 VAL A	48 144.888	10.631	-6.435 1.00 0.00
ATOM 677	2H0	G2 VAL A	48 145.764	11.458	-5.149 1.00 0.00

ATOM 678	3HG2 VAL A	48 144.092	10.958	-4.896 1.00 0.00
ATOM 679	N LEU A	49 148.535	7.539	-4.201 1.00 0.00
ATOM 680	CA LEU A	49 149.018	6.214	-3.836 1.00 0.00
ATOM 681	C LEU A	49 148.878	5.981	-2.338 1.00 0.00
ATOM 682	O LEU A	49 149.538	6.638	-1.532 1.00 0.00
ATOM 683	CB LEU A	49 150.480	6.046	-4.256 1.00 0.00
ATOM 684	CG LEU A	49 150.733	6.129	-5.763 1.00 0.00
ATOM 685	CD1 LEU A	49 152.125	6.676	-6.041 1.00 0.00
ATOM 686	CD2 LEU A	49 150.556	4.763	-6.408 1.00 0.00
ATOM 687	H LEU A	49 149.075	8.325	-3.971 1.00 0.00
ATOM 688	HA LEU A	49 148.417	5.486	-4.360 1.00 0.00
ATOM 689	1HB LEU A	49 151.062	6.815	-3.771 1.00 0.00
ATOM 690	2HB LEU A	49 150.824	5.084	-3.910 1.00 0.00
ATOM 691	HG LEU A	49 150.016	6.805	-6.206 1.00 0.00
ATOM 692	1HD1 LEU A	49 152.859	6.065	-5.535 1.00 0.00
ATOM 693	2HD1 LEU A	49 152.192	7.691	-5.679 1.00 0.00
ATOM 694	3HD1 LEU A	49 152.313	6.658	-7.104 1.00 0.00
ATOM 695	1HD2 LEU A	49 151.466	4.192	-6.299 1.00 0.00
ATOM 696	2HD2 LEU A	49 150.332	4.887	-7.458 1.00 0.00
ATOM 697	3HD2 LEU A	49 149.744	4.241	-5.927 1.00 0.00
ATOM 698	N ALA A	50 148.016	5.041	-1.969 1.00 0.00
ATOM 699	CA ALA A	50 147.792	4.725	-0.567 1.00 0.00
ATOM 700	C ALA A	50 148.710	3.597	-0.106 1.00 0.00
ATOM 701	O ALA A	50 148.601	2.465	-0.577 1.00 0.00
ATOM 702	CB ALA A	50 146.334	4.353	-0.335 1.00 0.00
ATOM 703	H ALA A	50 147.518	4.551	-2.657 1.00 0.00
ATOM 704	HA ALA A	50 148.009	5.613	0.009 1.00 0.00
ATOM 705	1HB ALA A	50 145.791	5.222	0.005 1.00 0.00
ATOM 706	2HB ALA A	50 146.275	3.576	0.412 1.00 0.00

ATOM 707	om	ALA A	50 145.903	3.997	-1.259 1.00 0.00
ATOM 707	3HB				
ATOM 708	N	GLY A	51 149.612	3.914	0.815 1.00 0.00
ATOM 709	CA	GLY A	51 150.535	2.916	1.323 1.00 0.00
ATOM 710	С	GLY A	51 149.844	1.863	2.167 1.00 0.00
ATOM 711	0	GLY A	51 149.329	2.161	3.245 1.00 0.00
ATOM 712	Н	GLY A	51 149.653	4.833	1.153 1.00 0.00
ATOM 713	1HA	GLY A	51 151.018	2.431	0.488 1.00 0.00
ATOM 714	2HA	GLY A	51 151.286	3.408	1.924 1.00 0.00
ATOM 715	N	LEU A	52 149.831	0.629	1.676 1.00 0.00
ATOM 716	CA	LEU A	52 149.197	-0.472	2.394 1.00 0.00
ATOM 717	С	LEU A	52 150.243	-1.373	3.043 1.00 0.00
ATOM 718	0	LEU A	52 151.202	-1.795	2.395 1.00 0.00
ATOM 719	СВ	LEU A	52 148.321	-1.291	1.444 1.00 0.00
ATOM 720	CG	LEU A	52 147.056	-0.582	0.958 1.00 0.00
ATOM 721	CD1	LEU A	52 146.413	-1.358	-0.180 1.00 0.00
ATOM 722	CD2	LEU A	52 146.072	-0.402	2.105 1.00 0.00
ATOM 723	Н	LEU A	52 150.258	0.452	0.813 1.00 0.00
ATOM 724	HA	LEU A	52 148.576	-0.048	3.168 1.00 0.00
ATOM 725	1HB	LEU A	52 148.914	-1.558	0.582 1.00 0.00
ATOM 726	2HE	B LEU A	52 148.025	-2.197	1.951 1.00 0.00
ATOM 727	HG	LEU A	52 147.320	0.398	0.587 1.00 0.00
ATOM 728	1HI)1 LEU A	52 147.183	-1.760	-0.823 1.00 0.00
ATOM 729	2HI)1 LEU A	52 145.776	-0.698	-0.752 1.00 0.00
ATOM 730	ЗНІ	O1 LEU A	52 145.822	-2.167	0.223 1.00 0.00
ATOM 731	1HI	O2 LEU A	52 146.235	-1.174	2.843 1.00 0.00
ATOM 732	2HI	D2 LEU A	52 145.063	-0.473	1.728 1.00 0.00
ATOM 733	3H	D2 LEU A	52 146.220	0.567	2.558 1.00 0.00
ATOM 734	N	GLU A	53 150.052	-1.664	4.326 1.00 0.00
ATOM 735	CA	GLU A	53 150.978	-2.514	5.063 1.00 0.00

ATOM 736	C	GLU A	53 150.455	-3.945	5.146 1.00 0.00
ATOM 737	0	GLU A	53 149.489	-4.223	5.858 1.00 0.00
ATOM 738	CB	GLU A	53 151.204	-1.959	6.470 1.00 0.00
ATOM 739	CG	GLU A	53 152.193	-2.769	7.292 1.00 0.00
ATOM 740	CD	GLU A	53 151.825	-2.820	8.762 1.00 0.00
ATOM 741	OE1	GLU A	53 150.789	-3.436	9.095 1.00 0.00
ATOM 742	0E2	GLU A	53 152.571	-2.244	9.581 1.00 0.00
ATOM 743	H	GLU A	53 149.269	-1.297	4.787 1.00 0.00
ATOM 744	HA	GLU A	53 151.919	-2.519	4.532 1.00 0.00
ATOM 745	1HB	GLU A	53 151.577	-0.949	6.391 1.00 0.00
ATOM 746	2HB	GLU A	53 150.259	-1.944	6.995 1.00 0.00
ATOM 747	. 1HG	GLU A	53 152.219	-3.779	6.909 1.00 0.00
ATOM 748	2HG	GLU A	53 153.172	-2.323	7.196 1.00 0.00
ATOM 749	N	LEU A	54 151.097	-4.848	4.413 1.00 0.00
ATOM 750	CA	LEU A	54 150.696	-6.250	4.404 1.00 0.00
ATOM 751	C	LEU A	54 150.964	-6.903	5.757 1.00 0.00
ATOM 752	0	LEU A	54 152.037	-6.735	6.335 1.00 0.00
ATOM 753	CB	LEU A	54 151.439	-7.008	3.302 1.00 0.00
ATOM 754	CG	LEU A	54 151.377	-6.362	1.917 1.00 0.00
ATOM 755	CD1	LEU A	54 152.577	-6.778	1.080 1.00 0.00
ATOM 756	CD2	LEU A	54 150.080	-6.734	1.215 1.00 0.00
ATOM 757	H	LEU A	54 151.859	-4.565	3.866 1.00 0.00
ATOM 758	HA	LEU A	54 149.635	-6.290	4.203 1.00 0.00
ATOM 759	1HB	LEU A	54 152.476	-7.094	3.591 1.00 0.00
ATOM 760	2HB	LEU A	54 151.019	-8.000	3.231 1.00 0.00
ATOM 761	HG	LEU A	54 151.404	-5.288	2.026 1.00 0.00
ATOM 762	1HD	1 LEU A	54 152.294	-6.815	0.038 1.00 0.00
ATOM 763	2HD	1 LEU A	54 152.914	-7.755	1.396 1.00 0.00
ATOM 764	3HD	1 LEU A	54 153.373	-6.062	1.212 1.00 0.00

ATOM '	765	1HD2	LEU	A	54	150.087	-6.336	0.212	1.00	0.00
MOTA	766	2HD2	LEU	A	54	149.244	-6.321	1.761	1.00	0.00
ATOM	767	3HD2	LEU	A	54	149.988	-7.809	1.175	1.00	0.00
ATOM	768	N	GLU	A	55	149.981	-7.645	6.255	1.00	0.00
ATOM	769	CA	GLU	A	55	150.112	-8.323	7.540	1.00	0.00
ATOM	770	C	GLU	A	55	151.134	-9.452	7.459	1.00	0.00
ATOM	771	0	GLU	A	55	151.849	-9.725	8.422	1.00	0.00
ATOM	772	CB	GLU	A	55	148.758	-8.876	7.988	1.00	0.00
ATOM	773	CG	GLU	A	55	147.661	-7.825	8.049	1.00	0.00
ATOM	774	CD	GLU	A	55	146.606	-8.144	9.089	1.00	0.00
ATOM	775	OE1	GLU	A	55	146.111	-7.202	9.743	1.00	0.00
ATOM	776	0E2	GLU	A	55	146.273	-9.338	9.250	1.00	0.00
ATOM	777	Н	GLU	A	55	149.149	-7.740	5.746	1.00	0.00
ATOM	778	HA	GLU	A	55	150.452	-7.597	8.264	1.00	0.00
ATOM	779	1HB	GLU	A	55	148.450	-9.646	7.297	1.00	0.00
ATOM	780	2HB	GLU	A	55	148.867	-9.310	8.971	1.00	0.00
ATOM	781	1HG	GLU	A	55	148.106	-6.873	8.292	1.00	0.00
ATOM	782	2HG	GLU	A	55	147. 185	-7.764	7.081	1.00	0.00
ATOM	783	N	ASP	A	56	151.196	-10.104	6.302	1.00	0.00
MOTA	784	CA	ASP	Α	56	152.131	-11.204	6.095	1.00	0.00
ATOM	785	С	ASP	Α	56	153.441	-10.699	5.500	1.00	0.00
MOTA	786	0	ASP	A	56	153.443	-9.875	4.585	1.00	0.00
ATOM	787	CB	ASP	A	56	151.513	-12.260	5. 178	3 1.00	0.00
ATOM	788	CG	ASP	A	56	151.896	-13.671	5.579	1.00	0.00
ATOM	789	0D1	ASP	A	56	152.482	-14.388	4.74]	1.00	0.00
ATOM	790	OD2	ASP	A	56	151.612	-14.057	6.733	3 1.00	0.00
ATOM	791	H	ASF	A	56	150.601	-9.839	5.57	1.00	0.00
ATOM	792	HA	ASF	A	56	152.336	-11.650	7.057	7 1.00	0.00
ATOM	793	1HB	ASF	A	56	150.437	-12.175	5.214	1.00	0.00

ATOM 794	2HB	ASP A	56 151.849 -12.090	4.165 1.00 0.00
ATOM 795	N	GLU A	57 154.555 -11.200	6.023 1.00 0.00
ATOM 796	CA	GLU A	57 155.873 -10.799	5.543 1.00 0.00
ATOM 797	С	GLU A	57 156.191 -11.467	4.209 1.00 0.00
ATOM 798	0	GLU A	57 156.569 -12.637	4.163 1.00 0.00
ATOM 799	CB	GLU A	57 156.945 -11.158	6.573 1.00 0.00
ATOM 800	CG	GLU A	57 157.202 -10.058	7.591 1.00 0.00
ATOM 801	CD	GLU A	57 158.675 -9.895	7.913 1.00 0.00
ATOM 802	OE1	GLU A	57 159.507 -10.090	7.002 1.00 0.00
ATOM 803	0E2	GLU A	57 158.996 -9.573	9.076 1.00 0.00
ATOM 804	Н	GLU A	57 154.490 -11.854	6.750 1.00 0.00
ATOM 805	HA	GLU A	57 155.864 -9.729	5.403 1.00 0.00
ATOM 806	1HB	GLU A	57 156.635 -12.045	7.106 1.00 0.00
ATOM 807	2HB	GLU A	57 157.871 -11.364	6.057 1.00 0.00
ATOM 808	1HG	GLU A	57 156.832 -9.125	7.194 1.00 0.00
ATOM 809	2HG	GLU A	57 156.673 -10.298	8.502 1.00 0.00
ATOM 810	N	CYS A	58 156.035 -10.715	3.125 1.00 0.00
ATOM 811	CA	CYS A	58 156.305 -11.234	1.789 1.00 0.00
ATOM 812	С	CYS A	58 157.612 -10.668	1.241 1.00 0.00
ATOM 813	0	CYS A	58 157.877 -9.472	1.350 1.00 0.00
ATOM 814	CB	CYS A	58 155.153 -10.892	0.844 1.00 0.00
ATOM 815	SG	CYS A	58 154.828 -12.155	-0.409 1.00 0.00
ATOM 816	Н	CYS A	58 155.731 -9.788	3.225 1.00 0.00
ATOM 817	HA	CYS A	58 156.393 -12.307	1.862 1.00 0.00
ATOM 818	1HE	CYS A	58 154.249 -10.764	1.421 1.00 0.00
ATOM 819	2HF	CYS A	58 155.378 -9.970	0.330 1.00 0.00
ATOM 820	HG	CYS A	58 155.382 -11.967	-1.171 1.00 0.00
ATOM 821	N	ALA A	59 158.424 -11.538	0.649 1.00 0.00
ATOM 822	CA	ALA A	59 159.704 -11.127	0.083 1.00 0.00

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-1.206 1.00 0.00
ATOM 823
                        59 159.504 -10.336
           C
                ALA A
                        59 158.946 -10.845
                                             -2.177 1.00 0.00
ATOM 824
           0
                ALA A
                                             -0.172 1.00 0.00
ATOM 825
           CB
                ALA A
                        59 160.583 -12.342
                        59 158.157 -12.480
                                             0.592 1.00 0.00
ATOM 826
           H
                ALA A
ATOM 827
           HA
                 ALA A
                        59 160.201 -10.498
                                             0.806 1.00 0.00
ATOM 828
            1HB
                 ALA A
                        59 160.533 -13.006
                                             0.679 1.00 0.00
ATOM 829
                 ALA A
                        59 161.604 -12.022
                                             -0.319 1.00 0.00
            2HB
                        59 160.235 -12.859
                                             -1.053 1.00 0.00
ATOM 830
            3HB
                 ALA A
                                    -9.090
                                             -1.206 1.00 0.00
ATOM 831
                 GLY A
                         60 159.964
            N
                                    -8.249
                                             -2.381 1.00 0.00
                 GLY A
                         60 159.828
ATOM 832
            CA
                                             -2.044 1.00 0.00
            C
                         60 159.332
                                     -6.857
                 GLY A
ATOM 833
                                     -5.895
                                             -2.751 1.00 0.00
            0
                 GLY A
                         60 159.634
ATOM 834
                                             -0.403 \ 1.00 \ 0.00
ATOM 835
            H
                 GLY A
                         60 160.402
                                     -8.738
                                             -2.868 \ 1.00 \ 0.00
ATOM 836
            1HA
                 GLY A
                         60 160.789
                                     -8.169
                                     -8.713
                                              -3.063 1.00 0.00
ATOM 837
            2HA
                 GLY A
                         60 159.129
                                     -6.749
                                              -0.961 1.00 0.00
                 CYS A
                         61 158.569
ATOM 838
            N
                                              -0.533 1.00 0.00
                 CYS A
                         61 158.030
                                     -5.464
ATOM 839
            CA
                         61 159.088
                                               0.201 1.00 0.00
            C
                                      -4.647
 ATOM 840
                 CYS A
                                               0.439 1.00 0.00
                                     -5.122
 ATOM 841
            0
                 CYS A
                         61 160.199
                                               0.372 1.00 0.00
                 CYS A
                         61 156.814
                                      -5.674
 ATOM 842
            CB
                                              -0.343 1.00 0.00
                  CYS A
                         61 155.538
                                      -6.739
 ATOM 843
            SG
                                              -0.440 1.00 0.00
 ATOM 844
            Η
                  CYS A
                         61 158.363
                                      -7.552
                  CYS A
                         61 157.721
                                      -4.923
                                              -1.414 1.00 0.00
 ATOM 845
            HA
                                               1.297 1.00 0.00
                         61 157.137
                                      -6.126
 ATOM 846
             1HB
                  CYS A
                                      -4.716
                                               0.584 1.00 0.00
 ATOM 847
            2HB
                  CYS A
                         61 156.361
                                     -6.443
                                              -1.241 1.00 0.00
 ATOM 848
            HG
                  CYS A
                         61 155.374
                                               0.557 1.00 0.00
 ATOM 849
             N
                  THR A
                         62 158.736
                                      -3.416
 ATOM 850
             CA
                  THR A
                         62 159.656
                                      -2.532
                                                1.265 1.00 0.00
             C
                         62 159.205
                                      -2.320
                                                2.707 1.00 0.00
 ATOM 851
                  THR A
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ATOM 852	0	THR A	62 158.208	-2.893	3.147 1.00 0.00
ATOM 853	CB	THR A	62 159.755	-1.186	0.546 1.00 0.00
ATOM 854	0G1	THR A	62 158.468	-0.633	0.336 1.00 0.00
ATOM 855	CG2	THR A	62 160.441	-1.276	-0.800 1.00 0.00
ATOM 856	H	THR A	62 157.835	-3.094	0.341 1.00 0.00
ATOM 857	HA	THR A	62 160.628	-3.001	1.270 1.00 0.00
ATOM 858	HB	THR A	62 160.322	-0.502	1.161 1.00 0.00
ATOM 859	HG1	THR A	62 158.158	-0.226	1.149 1.00 0.00
ATOM 860	1HG2	THR A	62 160.407	-2.296	-1.154 1.00 0.00
ATOM 861	2HG2	THR A	62 161.470	-0.963	-0.701 1.00 0.00
ATOM 862	3HG2	THR A	62 159.936	-0.634	-1.506 1.00 0.00
ATOM 863	N	ASP A	63 159.946	-1.492	3.437 1.00 0.00
ATOM 864	CA	ASP A	63 159.622	-1.204	4.830 1.00 0.00
ATOM 865	С	ASP A	63 158.872	0.118	4.951 1.00 0.00
ATOM 866	0	ASP A	63 158.994	0.823	5.953 1.00 0.00
ATOM 867	CB	ASP A	63 160.897	-1.160	5.673 1.00 0.00
ATOM 868	CG	ASP A	63 161.958	-0.260	5.071 1.00 0.00
ATOM 869	0D1	ASP A	63 161.917	0.962	5.329 1.00 0.00
ATOM 870	0D2	ASP A	63 162.830	-0.775	4.341 1.00 0.00
ATOM 871	H	ASP A	63 160.728	-1.066	3.030 1.00 0.00
ATOM 872	HA	ASP A	63 158.988	-1.998	5.194 1.00 0.00
ATOM 873	1HB	ASP A	63 160.658	-0.792	6.659 1.00 0.00
ATOM 874	2HB	ASP A	63 161.302	-2.158	5.755 1.00 0.00
ATOM 875	N	GLY A	64 158.097	0.449	3.923 1.00 0.00
ATOM 876	CA	GLY A	64 157.338	1.687	3.936 1.00 0.00
ATOM 877	С	GLY A	64 158.086	2.832	3.282 1.00 0.00
ATOM 878	0	GLY A	64 158.057	3.960	3.772 1.00 0.00
ATOM 879	H	GLY A	64 158.038	-0.151	3.152 1.00 0.00
ATOM 880	1HA	GLY A	64 156.408	1.532	3.409 1.00 0.00

ATOM 881	2HA	GLY A	64 157.119	1.951	4.959 1.00 0.00
ATOM 882	N	THR A	65 158.759	2.540	2.173 1.00 0.00
ATOM 883	CA	THR A	65 159.518	3.555	1.451 1.00 0.00
ATOM 884	C	THR A	65 159.186	3.527	-0.037 1.00 0.00
ATOM 885	0	THR A	65 159.401	2.520	-0.712 1.00 0.00
ATOM 886	CB	THR A	65 161.018	3.339	1.654 1.00 0.00
ATOM 887	0G1	THR A	65 161.361	1.979	1.450 1.00 0.00
ATOM 888	CG2	THR A	65 161.498	3.730	3.036 1.00 0.00
ATOM 889	H	THR A	65 158.743	1.622	1.832 1.00 0.00
ATOM 890	HA	THR A	65 159.246	4.520	1.851 1.00 0.00
ATOM 891	HB	THR A	65 161.559	3.937	0.935 1.00 0.00
ATOM 892	HG1	THR A	65 160.987	1.675	0.620 1.00 0.00
ATOM 893	1HG2	2 THR A	65 161.971	2.882	3.507 1.00 0.00
ATOM 894	2HG2	2 THR A	65 160.656	4.050	3.632 1.00 0.00
ATOM 895	3HG	2 THR A	65 162.209	4.539	2.954 1.00 0.00
ATOM 896	N	PHE A	66 158.661	4.639	-0.541 1.00 0.00
ATOM 897	CA	PHE A	66 158.299	4.742	-1.950 1.00 0.00
ATOM 898	С	PHE A	66 159.221	5.716	-2.679 1.00 0.00
ATOM 899	0	PHE A	66 159.301	6.892	-2.326 1.00 0.00
ATOM 900	CB	PHE A	66 156.845	5.196	-2.093 1.00 0.00
ATOM 901	CG	PHE A	66 156.255	4.906	-3.443 1.00 0.00
ATOM 902	CD1	PHE A	66 155.891	3.615	-3.791 1.00 0.00
ATOM 903	CD2	PHE A	66 156.065	5.924	-4.364 1.00 0.00
ATOM 904	CE1	PHE A	66 155.348	3.345	-5.033 1.00 0.00
ATOM 905	CE2	PHE A	66 155.523	5.659	-5.607 1.00 0.00
ATOM 906	CZ	PHE A	66 155.163	4.368	-5.943 1.00 0.00
ATOM 907	Н	PHE A	66 158.514	5.408	0.047 1.00 0.00
ATOM 908	НА	PHE A	A 66 158.406	3.764	-2.393 1.00 0.00
ATOM 909	1HI	B PHE A	A 66 156.243	4.691	-1.353 1.00 0.00

ATOM 910	2HB PH	ΞΑ	66 156.791	6.263	-1.927 1.	.00 0.00
ATOM 911	HD1 PH	EΑ	66 156.035	2.814	-3.082 1	.00 0.00
ATOM 912	HD2 PH	E A	66 156.345	6.933	-4.104 1	.00 0.00
ATOM 913	HE1 PH	E A	66 155.069	2.333	-5.293 1	.00 0.00
ATOM 914	HE2 PH	E A	66 155.379	6.461	-6.316 1	.00 0.00
ATOM 915	HZ PH	E A	66 154.739	4.159	-6.913 1	.00 0.00
ATOM 916	N AR	G A	67 159.915	5.216	-3.697 1	.00 0.00
ATOM 917	CA AR	G A	67 160.832	6.041	-4.475 1	.00 0.00
ATOM 918	C AR	G A	67 161.929	6.620	-3.587 1	.00 0.00
ATOM 919	O AF	G A	67 162.433	7.715	-3.841 1	.00 0.00
ATOM 920	CB AF	RG A	67 160.070	7.173	-5.166 J	.00 0.00
ATOM 921	CG AF	RG A	67 158.877	6.694	-5.979	1.00 0.00
ATOM 922	CD AI	RG A	67 159.187	6.672	-7.467	1.00 0.00
ATOM 923	NE AI	RG A	67 158.148	5.989	-8.234	1.00 0.00
ATOM 924	CZ Al	RG A	67 158.009	6.095	-9. 553	1.00 0.00
ATOM 925	NH1 A	RG A	67 158.840	6.854	-10.257	1.00 0.00
ATOM 926	NH2 A	RG A	67 157.035	5.440	-10.172	1.00 0.00
ATOM 927	H A	RG A	67 159.809	4.270	-3.929	1.00 0.00
ATOM 928	HA A	RG A	67 161.287	5.413	-5.225	1.00 0.00
ATOM 929	1HB A	RG A	67 159.713	7.862	-4.417	1.00 0.00
ATOM 930	2HB A	RG A	67 160.746	7.692	-5.830	1.00 0.00
ATOM 931	1HG A	RG A	67 158.615	5.696	-5.662	1.00 0.00
ATOM 932	2HG A	RG A	67 158.045	7.361	-5.805	1.00 0.00
ATOM 933	1HD A	RG A	67 159.272	7.689	-7.821	1.00 0.00
ATOM 934	2HD A	RG A	67 160.127	6.161	-7.618	1.00 0.00
ATOM 935	HE A	RG A	A 67 157.520	5.422	-7.739	1.00 0.00
ATOM 936	1HH1 A	ARG A	A 67 159.576	7.350	-9.797	1.00 0.00
ATOM 937	2HH1 /	ARG A	A 67 158.731	6.929	-11.248	1.00 0.00
ATOM 938	1HH2 /	ARG A	A 67 156.407	4.867	-9.647	1.00 0.00

ATOM 939	2HH2	ARG A	67 156.931	5.520 -	11.163 1.00 0.00
ATOM 940	N	GLY A	68 162.294	5.880	-2.546 1.00 0.00
ATOM 941	CA	GLY A	68 163.328	6.336	-1.637 1.00 0.00
ATOM 942	С	GLY A	68 162.851	7.452	-0.728 1.00 0.00
ATOM 943	0	GLY A	68 163.645	8.277	-0.277 1.00 0.00
ATOM 944	H	GLY A	68 161.858	5.016	-2.394 1.00 0.00
ATOM 945	1HA	GLY A	68 163.650	5.504	-1.028 1.00 0.00
ATOM 946	2HA	GLY A	68 164.169	6.692	-2.215 1.00 0.00
ATOM 947	N	THR A	69 161.549	7.477	-0.459 1.00 0.00
ATOM 948	CA	THR A	69 160.967	8.500	0.402 1.00 0.00
ATOM 949	С	THR A	69 160.013	7.879	1.417 1.00 0.00
ATOM 950	0	THR A	69 158.835	7.665	1.126 1.00 0.00
ATOM 951	CB	THR A	69 160.228	9.543	-0.438 1.00 0.00
ATOM 952	0G1	THR A	69 161.060	10.033	-1.474 1.00 0.00
ATOM 953	CG2	THR A	69 159.750	10.732	0.367 1.00 0.00
ATOM 954	Н	THR A	69 160.967	6.792	-0.848 1.00 0.00
ATOM 955	HA	THR A	69 161.772	8.984	0.934 1.00 0.00
ATOM 956	HB	THR A	69 159.362	9.079	-0.889 1.00 0.00
ATOM 957	HG1	THR A	69 161.864	10.397	-1.095 1.00 0.00
ATOM 958	1HG2	2 THR A	69 158.755	11.006	0.048 1.00 0.00
ATOM 959	2HG2	2 THR A	69 160.421	11.564	0.214 1.00 0.00
ATOM 960	3HG2	2 THR A	69 159.732	10.473	1.416 1.00 0.00
ATOM 961	N	ARG A	70 160.528	7.590	2.608 1.00 0.00
ATOM 962	CA	ARG A	70 159.721	6.993	3.665 1.00 0.00
ATOM 963	С	ARG A	70 158.604	7.938	4.097 1.00 0.00
ATOM 964	0	ARG A	70 158.855	9.085	4.463 1.00 0.00
ATOM 965	CB	ARG A	70 160.598	6.640	4.867 1.00 0.00
ATOM 966	CG	ARG A	70 159.836	5.977	6.004 1.00 0.00
ATOM 967	CD	ARG A	70 160.300	6.481	7.361 1.00 0.00

ATOM	968	NE	ARG A	70	160.874	5.412	8.175	1.00	0.00
ATOM	969	CZ	ARG A	70	161.488	5.614	9.338	1.00	0.00
ATOM	970	NH1	ARG A	70	161.607	6.842	9.829	1.00	0.00
ATOM	971	NH2	ARG A	70	161.982	4.586	10.014	1.00	0.00
ATOM	972	Н	ARG A	70	161.472	7.783	2.779	1.00	0.00
ATOM	973	HA	ARG A	70	159.279	6.088	3.274	1.00	0.00
ATOM	974	1HB	ARG A	70	161.378	5.965	4.544	1.00	0.00
ATOM	975	2HB	ARG A	70	161.052	7.544	5.245	1.00	0.00
ATOM	976	1HG	ARG A	70	158.784	6.193	5.892	1.00	0.00
ATOM	977	2HG	ARG A	70	159.992	4.908	5.953	1.00	0.00
ATOM	978	1HD	ARG A	70	161.046	7.247	7.213	1.00	0.00
ATOM	979	2HD	ARG A	70	159.453	6.901	7.883	1.00	0.00
ATOM	980	HE	ARG A	70	160.800	4.496	7.836	1.00	0.00
ATOM	981	1HH1	ARG A	70	161.237	7.621	9.325	1.00	0.00
ATOM	982	2HH1	ARG A	70	162.069	6.987	10.705	1.00	0.00
ATOM	983	1HH2	ARG A	70	161.894	3.659	9.650	1.00	0.00
ATOM	984	2HH2	ARG A	70	162.443	4.738	10.889	1.00	0.00
ATOM	985	N	TYR A	71	157.370	7.446	4.052	1.00	0.00
ATOM	986	CA	TYR A	71	156.214	8.246	4.439	1.00	0.00
ATOM	987	C	TYR A	71	155.763	7.901	5.855	1.00	0.00
ATOM	988	0	TYR A	71	155.335	8.772	6.611	1.00	0.00
ATOM	989	CB	TYR A	71	155.062	8.026	3.457	1.00	0.00
ATOM	990	CG	TYR A	71	155.320	8.599	2.082	1.00	0.00
ATOM	991	CD1	TYR A	71	155.325	7.783	0.958	1.00	0.00
ATOM	992	CD2	TYR A	71	155.557	9.957	1.908	1.00	0.00
ATOM	993	CE1	TYR A	71	155.560	8.303	-0.301	1.00	0.00
ATOM	994	CE2	TYR A	71	155.793	10.485	0.652	2 1.00	0.00
ATOM	995	CZ	TYR A	71	155.794	9.654	-0.448	3 1.00	0.00
ATOM	1 996	OH	TYR A	71	156.028	10.176	-1.700	1.00	0.00

ATOM S	97	Н	TYR A	71 1	57.233	6.523	3.751	1.00 0.00
ATOM 9	98	HA	TYR A	71 1	56.506	9.285	4.410	1.00 0.00
ATOM S	999	1HB	TYR A	71 1	54.891	6.965	3.347	1.00 0.00
ATOM :	1000	2HB	TYR A	71 1	54.170	8.491	3.849	1.00 0.00
ATOM	1001	HD1	TYR A	71 1	.55.142	6.725	1.076	1.00 0.00
ATOM	1002	HD2	TYR A	71 1	.55.557	10.605	2.772	1.00 0.00
ATOM	1003	HE1	TYR A	71 1	55.561	7.653	-1.163	1.00 0.00
ATOM	1004	HE2	TYR A	71 1	155.976	11.543	0.538	1.00 0.00
ATOM	1005	НН	TYR A	71 1	155.312	9.928	-2.289	1.00 0.00
ATOM	1006	N	PHE A	72	155.865	6.623	6.207	1.00 0.00
ATOM	1007	CA	PHE A	72	155.467	6.162	7.533	1.00 0.00
ATOM	1008	С	PHE A	72	156.458	5.134	8.069	1.00 0.00
ATOM	1009	0	PHE A	72	157.415	4.764	7.388	1.00 0.00
ATOM	1010	CB	PHE A	72	154.063	5.558	7.486	1.00 0.00
ATOM	1011	CG	PHE A	72	153.887	4.530	6.405	1.00 0.00
ATOM	1012	CD1	PHE A	72	153.603	4.914	5.104	1.00 0.00
ATOM	1013	CD2	PHE A	72	154.006	3.179	6.690	1.00 0.00
ATOM	1014	CE1	PHE A	72	153.441	3.971	4.108	1.00 0.00
ATOM	1015	CE2	PHE A	72	153.844	2.231	5.697	1.00 0.00
ATOM	1016	CZ	PHE A	72	153.562	2.628	4.405	1.00 0.00
ATOM	1017	H	PHE A	72	156.214	5.975	5.561	1.00 0.00
ATOM	1018	HA	PHE A	72	155.461	7.017	8.192	1.00 0.00
ATOM	1019	1HB	PHE A	72	153.851	5.084	8.432	1.00 0.00
ATOM	1020	2HB	PHE A	. 72	153.345	6.348	7.315	1.00 0.00
ATOM	1021	HD1	PHE A	72	153.509	5.965	4.871	1.00 0.00
ATOM	1022	HD2	PHE A	72	154.227	2.868	7.700	1.00 0.00
ATOM	1023	HE1	PHE A	72	153.219	4.284	3.097	1.00 0.00
ATOM	1024	HE2	PHE A	72	153.939	1.181	5.932	1.00 0.00
ATOM	1025	HZ	PHE A	72	153.435	1.888	3.628	1.00 0.00

ATOM 3	1026	N	THR A	73	156.221	4.676	9.294 1.00 0.00	
ATOM :	1027	CA	THR A	73	157.093	3.690	9.923 1.00 0.00	
ATOM :	1028	С	THR A	73	156.375	2.353	10.085 1.00 0.00	
ATOM	1029	0	THR A	73	155.407	2.245	10.838 1.00 0.00	
ATOM	1030	CB	THR A	. 73	157.569	4.194	11.287 1.00 0.00	
ATOM	1031	0G1	THR A	73	157.769	5.596	11.260 1.00 0.00	
ATOM	1032	CG2	THR A	73	158.861	3.554	11.744 1.00 0.00	
ATOM	1033	Н	THR A	73	155.443	5.008	9.787 1.00 0.00	
MOTA	1034	HA	THR A	73	157.950	3.549	9.283 1.00 0.00	
ATOM	1035	HB	THR A	73	156.810	3.974	12.025 1.00 0.00	
ATOM	1036	HG1	THR A	A 73	158.374	5.820	10.549 1.00 0.00	
ATOM	1037	1HG2	THR A	A 73	158.644	2.615	12.232 1.00 0.00	
ATOM	1038	2HG2	THR	A 73	159.362	4.213	12.438 1.00 0.00	
MOTA	1039	3HG2	THR	A 73	159.498	3.378	10.890 1.00 0.00	
ATOM	1040	N	CYS .	A 74	156.856	1.339	9.374 1.00 0.00	
ATOM	1041	CA	CYS	A 74	156.259	0.010	9.438 1.00 0.00	ı
ATOM	1042	С	CYS	A 74	157.337	-1.069	9.474 1.00 0.00)
ATOM	1043	0	CYS	A 74	158.530	-0.770	9.420 1.00 0.00)
ATOM	1044	CB	CYS	A 74	4 155.333	-0.215	8.241 1.00 0.00)
ATOM	1045	SG	CYS	A 74	4 153.621	0.290	8.527 1.00 0.00)
ATOM	1046	H	CYS	A 7	4 157.629	1.488	8.790 1.00 0.00)
ATOM	1047	HA	CYS	A 7	4 155.679	-0.049	10.346 1.00 0.00)
ATOM	1048	1HB	CYS	A 7	4 155.705	0.347	7.398 1.00 0.00)
ATOM	1049	2HB	CYS	A 7	4 155.329	-1.267	7.992 1.00 0.00)
ATOM	1050	HG	CYS	A 7	4 153.631	1.051	9.113 1.00 0.00	0
ATOM	1 1051	. N	ALA	A 7	5 156.908	-2.324	9.562 1.00 0.00	0
ATON	1 1052	CA	ALA	A 7	5 157.836	-3.447	9.604 1.00 0.0	0
ATON	A 1053	3 C	ALA	A 7	5 158.524	-3.641	8.257 1.00 0.0	0
ATON	A 1054	1 0	ALA	A 7	75 158.192	-2.974	7.277 1.00 0.0	0

ATOM I	1055	CB	ALA	A	75	157.108	-4.718	10.014	1.00	0.00
ATOM I	1056	Н	ALA	A	75	155.945	-2.498	9.601	1.00	0.00
ATOM 3	1057	HA	ALA	A	75	158.586	-3.232	10.352	1.00	0.00
ATOM 3	1058	1HB	ALA	A	75	156.868	-5.295	9.134	1.00	0.00
ATOM :	1059	2HB	ALA	A	75	156.197	-4.459	10.535	1.00	0.00
ATOM :	1060	ЗНВ	ALA	A	75	157.741	-5.301	10.666	1.00	0.00
ATOM	1061	N	LEU	A	76	159.485	-4.558	8.216	1.00	0.00
ATOM	1062	CA	LEU	A	76	160.222	-4.840	6.989	1.00	0.00
ATOM	1063	С	LEU	A	76	159.471	-5.846	6.123	1.00	0.00
ATOM	1064	0	LEU	A	76	158.917	-6.822	6.628	1.00	0.00
ATOM	1065	CB	LEU	A	76	161.617	-5.374	7.317	1.00	0.00
ATOM	1066	CG	LEU	A	76	162.644	-4.307	7.700	1.00	0.00
ATOM	1067	CD1	LEU	A	76	163.639	-4.860	8.709	1.00	0.00
ATOM	1068	CD2	LEU	A	76	163.367	-3.795	6.463	1.00	0.00
ATOM	1069	H	LEU	A	76	159.706	-5.056	9.031	1.00	0.00
ATOM	1070	HA	LEU	A	76	160.320	-3.914	6.442	1.00	0.00
ATOM	1071	1HB	LEU	A	76	161.529	-6.070	8.139	1.00	0.00
ATOM	1072	2HB	LEU	A	76	161.988	-5.905	6.455	1.00	0.00
ATOM	1073	HG	LEU	A	76	162.134	-3.472	8.159	1.00	0.00
ATOM	1074	1HD1	LEU	A	76	163.261	-4.706	9.709	1.00	0.00
ATOM	1075	2HD1	LEU	A	76	164.585	-4.352	8.600	1.00	0.00
ATOM	1076	3HD1	LEU	A	76	163.777	-5.919	8.536	1.00	0.00
ATOM	1077	1HD2	LEU	J A	76	162.75	-3.963	5.592	1.00	0.00
ATOM	1078	2HD2	LEU	J A	76	164.302	2 -4.323	6.349	1.00	0.00
ATOM	1079	3HD2	LEU	J A	76	163.560	-2.739	6.570	1.00	0.00
ATOM	1080	N	LYS	S A	77	159.456	5 -5.600	4.817	1.00	0.00
ATOM	1081	CA	LYS	S A	77	7 158.77	3 -6.486	3.881	1.00	0.00
ATOM	1082	C	LYS	S A	77	7 157.282	2 -6.563	4.193	1.00	0.00
ATOM	1083	0	LYS	S A	77	7 156.67	6 -7.632	4.119	1.00	0.00

ATOM J	1084	СВ	LYS A	77	159.390	-7.885	3.928 1.00	0.00
ATOM 1	1085	CG	LYS A	77	160.875	-7.906	3.603 1.00	0.00
ATOM 3	1086	CD	LYS A	77	161.118	-7.884	2.103 1.00	0.00
ATOM :	1087	CE	LYS A	77	162.543	-7.467	1.776 1.00	0.00
ATOM	1088	NZ	LYS A	77	163.090	-8.220	0.614 1.00	0.00
ATOM	1089	Н	LYS A	77	159.916	-4.805	4.475 1.00	0.00
ATOM	1090	HA	LYS A	77	158.900	-6.079	2.889 1.00	0.00
ATOM	1091	1HB	LYS A	77	159.255	-8.293	4.918 1.00	0.00
ATOM	1092	2HB	LYS A	77	158.879	-8.515	3.215 1.00	0.00
ATOM	1093	1HG	LYS A	77	161.343	-7.040	4.047 1.00	0.00
ATOM	1094	2HG	LYS A	77	161.311	-8.804	4.017 1.00	0.00
ATOM	1095	1HD	LYS A	77	160.944	-8.872	1.705 1.00	0.00
ATOM	1096	2HD	LYS A	77	160.434	-7.183	1.648 1.00	0.00
ATOM	1097	1HE	LYS A	77	162.551	-6.412	1.544 1.00	0.00
ATOM	1098	2HE	LYS A	77	163.166	-7.649	2.639 1.00	0.00
ATOM	1099	1HZ	LYS A	77	162.550	-7.995	-0.246 1.00	0.00
ATOM	1100	2HZ	LYS A	77	163.028	-9.244	0.790 1.00	0.00
ATOM	1101	ЗНΖ	LYS A	77	164.088	-7.967	0.461 1.00	0.00
ATOM	1102	N	LYS A	78	3 156.696	-5.423	4.544 1.0	0.00
ATOM	1103	CA	LYS A	78	3 155.275	-5.362	4.868 1.0	0.00
ATOM	1104	C	LYS A	78	3 154.692	-4.001	4.500 1.0	0.00
ATOM	1105	0	LYS A	78	3 153.843	-3.465	5.212 1.0	0.00
ATOM	1106	CB	LYS A	78	3 155.058	-5.638	6.357 1.0	0 0.00
ATOM	1107	CG	LYS A	73	8 155.577	-6.994	6.806 1.0	0.00
ATOM	1108	CD	LYS A	7	8 155.301	-7.234	8.282 1.0	0.00
ATOM	1109	CE	LYS A	7	8 154.066	-8.098	8.483 1.0	0.00
ATOM	1110	NZ	LYS A	. 7	8 153.349	-7.755	9.743 1.0	0.00
ATOM	1111	Н	LYS A	. 7	8 157.232	-4.604	4.586 1.0	0.00
ATOM	1112	HA	LYS A	. 7	8 154.772	-6.123	4.293 1.0	0.00

ATOM 1	113	1HB	LYS A	78 15	5.565	-4.875	6.930	1.00 (0.00
ATOM 1	114	2HB	LYS A	78 15	4.001	-5.592	6.569	1.00 (0.00
ATOM 1	115	1HG	LYS A	78 15	55.089	-7.764	6.228	1.00 (0.00
ATOM 1	116	2HG	LYS A	78 15	6.643	-7.035	6.636	1.00	0.00
ATOM 1	.117	1HD	LYS A	78 15	6. 152	-7.734	8.720	1.00	0.00
ATOM 1	118	2HD	LYS A	78 15	55.148	-6.283	8.769	1.00	0.00
ATOM 1	1119	1HE	LYS A	78 15	53.399	-7.950	7.649	1.00	0.00
ATOM 1	1120	2HE	LYS A	78 15	54.369	-9.134	8.522	1.00	0.00
ATOM 1	1121	1HZ	LYS A	78 19	52.922	-8.610	10.155	1.00	0.00
ATOM 1	1122	2HZ	LYS A	78 1	52.597	-7.065	9.549	1.00	0.00
ATOM 1	1123	3HZ	LYS A	78 1	54.012	-7.345	10.431	1.00	0.00
ATOM 3	1124	N	ALA A	79 1	55.152	-3.448	3.382	1.00	0.00
ATOM :	1125	CA	ALA A	79 1	54.674	-2.151	2.920	1.00	0.00
ATOM :	1126	C	ALA A	79 1	54.599	-2.103	1.397	1.00	0.00
ATOM :	1127	0	ALA A	79 1	55.621	-2.002	0.719	1.00	0.00
MOTA	1128	СВ	ALA A	79 1	55.576	-1.041	3.440	1.00	0.00
ATOM	1129	Н	ALA A	79 1	55.828	-3.923	2.856	1.00	0.00
ATOM	1130	HA	ALA A	79 1	53.684	-1.996	3.324	1.00	0.00
ATOM	1131	1HB	ALA A	79 1	55.178	-0.659	4.369	1.00	0.00
ATOM	1132	2HB	ALA A	79 1	55.621	-0.243	2.714	1.00	0.00
ATOM	1133	ЗНВ	ALA A	79 1	56.569	-1.432	3.607	1.00	0.00
ATOM	1134	N	LEU A	80 1	53.382	-2.177	0.868	1.00	0.00
ATOM	1135	CA	LEU A	80 1	153. 172	-2.143	-0.576	1.00	0.00
MOTA	1136	С	LEU A	80 1	152.306	-0.951	-0.970	1.00	0.00
ATOM	1137	0	LEU A	80 1	151.157	-0.836	-0.541	1.00	0.00
ATOM	1138	CB	LEU A	80	152.518	-3.443	-1.047	1.00	0.00
ATOM	1139	CG	LEU A	80	152. 189	-3.497	-2.540	1.00	0.00
ATOM	1140	CD1	LEU A	80	153.449	-3.741	-3.356	3 1.00	0.00
ATOM	1141	CD2	LEU A	. 80	151. 155	-4.579	-2.817	7 1.00	0.00

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LEU A
                                             1.462 1.00 0.00
ATOM 1142
           H
                       80 152.606
                                    -2.257
ATOM 1143
           HA
                LEU A
                        80 154.137
                                    -2.043
                                             -1.049 1.00 0.00
                LEU A
                                             -0.816 1.00 0.00
ATOM 1144
           1HB
                        80 153.185
                                    -4.261
                                             -0.494 1.00 0.00
ATOM 1145
           2HB
                LEU A
                        80 151.601
                                    -3.581
ATOM 1146
           HG
                LEU A
                        80 151.772
                                    -2.549
                                             -2.845 \ 1.00 \ 0.00
ATOM 1147
           1HD1 LEU A
                        80 153.391
                                    -3.188
                                             -4.282 \ 1.00 \ 0.00
ATOM 1148
           2HD1 LEU A
                        80 153.541
                                    -4.794
                                             -3.571 1.00 0.00
ATOM 1149
           3HD1 LEU A
                        80 154.311
                                    -3.411
                                             -2.794 1.00 0.00
ATOM 1150
           1HD2 LEU A
                        80 150.553
                                     -4.292
                                             -3.666 1.00 0.00
           2HD2 LEU A
                                     -4.703
                                             -1.951 1.00 0.00
ATOM 1151
                        80 150.522
                                     -5.511
                                             -3.032 1.00 0.00
            3HD2 LEU A
                        80 151.658
ATOM 1152
                                             -1.789 1.00 0.00
                 PHE A
                        81 152.863
                                     -0.066
ATOM 1153
           N
                                             -2.242 1.00 0.00
                 PHE A
                                      1.118
ATOM 1154
            CA
                        81 152.142
ATOM 1155
            C
                        81 151.299
                                      0.803
                                             -3.473 1.00 0.00
                 PHE A
            0
                 PHE A
                        81 151.736
                                      0.083
                                             -4.371 1.00 0.00
ATOM 1156
                                             -2.557 1.00 0.00
                 PHE A
                        81 153.123
                                      2.249
ATOM 1157
            CB
                                              -1.336 1.00 0.00
                                      2.847
ATOM 1158
            CG
                 PHE A
                        81 153.763
                                              -0.757 1.00 0.00
                                      3.993
            CD1
                 PHE A
                         81 153.243
 ATOM 1159
                                              -0.768 1.00 0.00
            CD2
                 PHE A
                         81 154.883
                                      2.260
 ATOM 1160
                                               0.367 1.00 0.00
                 PHE A
                                      4.545
 ATOM 1161
            CE1
                         81 153.829
                                               0.355 1.00 0.00
 ATOM 1162
                                      2.808
            CE2
                 PHE A
                         81 155.473
                                               0.923 1.00 0.00
            CZ
                 PHE A
                                      3.952
 ATOM 1163
                         81 154.946
 ATOM 1164
                                              -2.096 1.00 0.00
            Η
                 PHE A
                         81 153.783
                                      -0.212
                                              -1.443 1.00 0.00
 ATOM 1165
            HA
                 PHE A
                         81 151.487
                                       1.433
                                              -3.191 1.00 0.00
                 PHE A
                                       1.868
 ATOM 1166
            1HB
                         81 153.910
                                              -3.077 1.00 0.00
                                       3.037
 ATOM 1167
            2HB
                  PHE A
                         81 152.597
                                              -1.190 1.00 0.00
                  PHE A
 ATOM 1168
            HD1
                         81 152.370
                                       4.457
                                              -1.212 1.00 0.00
 ATOM 1169
            HD2
                  PHE A
                         81 155.296
                                       1.367
            HE1
                  PHE A
                        81 153.416
                                       5.439
                                               0.809 1.00 0.00
 ATOM 1170
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ATOM :	1171	HE2	PHE A	81 156.346	2.343	0.788 1.00 0.00
ATOM :	1172	HZ	PHE A	81 155.407	4.381	1.802 1.00 0.00
ATOM :	1173	N	VAL A	82 150.087	1.347	-3.509 1.00 0.00
ATOM	1174	CA	VAL A	82 149.182	1.124	-4.631 1.00 0.00
ATOM	1175	С	VAL A	82 148.297	2.342	-4.873 1.00 0.00
ATOM	1176	0	VAL A	82 148.200	3.229	-4.027 1.00 0.00
ATOM	1177	CB	VAL A	82 148.288	-0.107	-4.394 1.00 0.00
ATOM	1178	CG1	VAL A	82 149.115	-1.382	-4.425 1.00 0.00
ATOM	1179	CG2	VAL A	82 147.539	0.021	-3.077 1.00 0.00
ATOM	1180	Н	VAL A	82 149.794	1.912	-2.764 1.00 0.00
ATOM	1181	HA	VAL A	82 149.780	0.945	-5.512 1.00 0.00
ATOM	1182	HB	VAL A	82 147.561	-0.158	-5.192 1.00 0.00
ATOM	1183	1HG1	VAL A	82 149.562	-1.499	-5.401 1.00 0.00
ATOM	1184	2HG1	VAL A	82 148.478	-2.230	-4.217 1.00 0.00
ATOM	1185	3HG1	VAL A	82 149.893	-1.325	-3.677 1.00 0.00
ATOM	1186	1HG2	VAL A	82 147.408	-0.959	-2.641 1.00 0.00
ATOM	1187	2HG2	VAL A	82 146.572	0.469	-3.254 1.00 0.00
ATOM	1188	3HG2	VAL A	82 148.106	0.644	-2.400 1.00 0.00
ATOM	1189	N	LYS A	83 147.652	2.375	-6.035 1.00 0.00
ATOM	1190	CA	LYS A	83 146.774	3.484	-6.390 1.00 0.00
ATOM	1191	С	LYS A	83 145.517	3.482	-5.528 1.00 0.00
ATOM	1192	0	LYS A	83 144.750	2.518	-5.530 1.00 0.00
ATOM	1193	CB	LYS A	83 146.392	3.406	-7.870 1.00 0.00
ATOM	1194	CG	LYS A	83 147.588	3.405	-8.808 1.00 0.00
ATOM	1195	CD	LYS A	83 147.168	3.152	-10.247 1.00 0.00
ATOM	1196	CE	LYS A	83 147.976	3.993	-11.220 1.00 0.00
ATOM	1197	NZ	LYS A	83 148.286	3.250	-12.472 1.00 0.00
ATOM	1198	Н	LYS A	83 147.770	1.637	-6.669 1.00 0.00
ATOM	1199	HA	LYS A	83 147.313	4.403	-6.216 1.00 0.00

ATOM	1200	1HB	LYS A	83	145.830	2.498	-8.038	1.00	0.00
ATOM	1201	2HB	LYS A	83	145.770	4.254	-8.115	1.00	0.00
ATOM	1202	1HG	LYS A	83	148.078	4.366	-8.751	1.00	0.00
ATOM	1203	2HG	LYS A	83	148.274	2.630	-8.501	1.00	0.00
ATOM	1204	1HD	LYS A	83	147.318	2.108	-10.477	1.00	0.00
ATOM	1205	2HD	LYS A	83	146.121	3.398	-10.354	1.00	0.00
ATOM	1206	1HE	LYS A	83	147.410	4.879	-11.469	1.00	0.00
ATOM	1207	2HE	LYS A	83	148.902	4.282	-10.744	1.00	0.00
ATOM	1208	1HZ	LYS A	83	149.234	3.508	-12.816	1.00	0.00
ATOM	1209	2HZ	LYS A	83	147.589	3.481	-13.207	1.00	0.00
ATOM	1210	3HZ	LYS A	83	148.261	2.226	-12.296	1.00	0.00
ATOM	1211	N	LEU A	84	145.313	4.569	-4.792	1.00	0.00
ATOM	1212	CA	LEU A	84	144.151	4.700	-3.922	1.00	0.00
ATOM	1213	С	LEU A	84	142.856	4.573	-4.719	1.00	0.00
ATOM	1214	0	LEU A	84	141.863	4.038	-4.227	1.00	0.00
ATOM	1215	СВ	LEU A	84	144.189	6.045	-3.194	1.00	0.00
ATOM	1216	CG	LEU A	84	142.978	6.339	-2.308	1.00	0.00
ATOM	1217	CD1	LEU A	84	143.141	5.682	-0.946	1.00	0.00
ATOM	1218	CD2	LEU A	84	142.780	7.840	-2.158	1.00	0.00
ATOM	1219	Н	LEU A	84	145.962	5.301	-4.836	1.00	0.00
ATOM	1220	HA	LEU A	84	144.191	3.905	-3.193	1.00	0.00
ATOM	1221	1HB	LEU A	84	145.075	6.071	-2.577	1.00	0.00
ATOM	1222	2HB	LEU A	84	1 144.264	6.827	-3.934	1.00	0.00
ATOM	1223	HG	LEU A	84	142.091	5.928	-2.771	1.00	0.00
ATOM	1224	1HD1	LEU A	84	1 143.630	4.727	-1.063	1.00	0.00
ATOM	1225	2HD1	LEU A	. 84	4 142.169	5.537	-0.497	1.00	0.00
ATOM	1226	3HD1	LEU A	. 84	4 143.739	6.318	-0.309	1.00	0.00
ATOM	1227	1HD2	LEU A	. 84	4 141.894	8.030	-1.571	1.00	0.00
ATOM	1228	2HD2	LEU A	. 84	4 142.667	8.287	-3.134	1.00	0.00

ATOM	1229	3HD2	LEU A	84	143.639	8.268	-1.663	1.00	0.00
ATOM	1230	N	LYS A	85	142.875	5.070	-5.951	1.00	0.00
ATOM	1231	CA	LYS A	85	141.701	5.014	-6.815	1.00	0.00
ATOM	1232	С	LYS A	85	141.332	3.569	-7.138	1.00	0.00
ATOM	1233	0	LYS A	85	140.173	3.263	-7.421	1.00	0.00
ATOM	1234	СВ	LYS A	85	141.958	5.788	-8.109	1.00	0.00
ATOM	1235	CG	LYS A	85	143.098	5.223	-8.941	1.00	0.00
MOTA	1236	CD	LYS A	85	143.604	6.236	-9.955	1.00	0.00
ATOM	1237	CE	LYS A	85	144.941	5.817	-10.542	1.00	0.00
ATOM	1238	NZ	LYS A	85	145.553	6.900	-11.362	1.00	0.00
ATOM	1239	H	LYS A	85	143.696	5.486	-6.287	1.00	0.00
ATOM	1240	HA	LYS A	85	140.879	5.473	-6.289	1.00	0.00
ATOM	1241	1HB	LYS A	85	141.060	5.770	-8.710	1.00	0.00
ATOM	1242	2HB	LYS A	85	142.195	6.812	-7.862	1.00	0.00
ATOM	1243	1HG	LYS A	85	143.910	4.952	-8.283	1.00	0.00
ATOM	1244	2HG	LYS A	. 85	142.748	4.346	-9.465	1.00	0.00
ATOM	1245	1HD	LYS A	. 85	142.882	6.323	-10.753	1.00	0.00
ATOM	1246	2HD	LYS A	. 85	143.719	7.193	-9.466	1.00	0.00
ATOM	1247	1HE	LYS A	85	145.613	5.567	-9.734	1.00	0.00
ATOM	1248	2HE	LYS A	85	144.790	4.948	-11.165	1.00	0.00
ATOM	1249	1HZ	LYS A	85	145.891	7.666	-10.746	1.00	0.00
ATOM	1250	2HZ	LYS A	85	144.850	7.287	-12.023	1.00	0.00
ATOM	1251	3HZ	LYS A	85	3 146.356	6.526	-11.906	1.00	0.00
ATOM	1252	N	SER A	86	3 142.322	2.682	-7.094	1.00	0.00
ATOM	1253	CA	SER A	86	5 142.098	1.271	-7.381	1.00	0.00
ATOM	1254	C	SER A	86	5 142.057	0.453	-6.095	1.00	0.00
ATOM	1255	0	SER A	A 86	5 142.443	-0.716	-6.079	1.00	0.00
ATOM	1256	CB	SER A	A 86	5 143.194	0.737	-8.305	1.00	0.00
ATOM	1257	0G	SER A	A 86	5 143.269	1.496	-9.499	1.00	0.00

ATOM I	1258	Н	SER A	86	143.225	2.984	-6.862	1.00	0.00
ATOM 3	1259	HA	SER A	. 86	141.144	1.182	-7.881	1.00	0.00
ATOM :	1260	1HB	SER A	. 86	144.146	0.792	-7.799	1.00	0.00
ATOM :	1261	2HB	SER A	. 86	142.980	-0.290	-8.558	1.00	0.00
ATOM :	1262	HG	SER A	86	142.385	1.639	-9.845	1.00	0.00
ATOM	1263	N	CYS A	87	141.587	1.075	-5.018	1.00	0.00
ATOM	1264	CA	CYS A	87	141.496	0.404	-3.726	1.00	0.00
ATOM	1265	С	CYS A	87	140.043	0.114	-3.366	1.00	0.00
ATOM	1266	0	CYS A	87	139.125	0.737	-3.901	1.00	0.00
ATOM	1267	CB	CYS A	87	142.143	1.260	-2.637	1.00	0.00
ATOM	1268	SG	CYS A	A 87	143.948	1.167	-2.600	1.00	0.00
ATOM	1269	H	CYS A	A 87	141.296	2.007	-5.094	1.00	0.00
ATOM	1270	HA	CYS A	A 87	142.029	-0.532	-3.801	1.00	0.00
ATOM	1271	1HB·	CYS A	A 87	141.871	2.293	-2.792	1.00	0.00
ATOM	1272	2HB	CYS A	A 87	141.777	0.938	-1.673	1.00	0.00
ATOM	1273	HG	CYS A	A 87	144.265	1.809	-1.959	1.00	0.00
ATOM	1274	N	ARG A	A 88	139.840	-0.834	-2.458	1.00	0.00
ATOM	1275	CA	ARG A	A 88	3 138.497	-1.205	-2.028	1.00	0.00
ATOM	1276	С	ARG .	A 88	3 138.413	-1.271	-0.503	1.00	0.00
ATOM	1277	0	ARG .	A 88	3 139.296	-1.826	0.151	1.00	0.00
MOTA	1278	CB	ARG .	A 88	3 138.102	-2.555	-2.631	1.00	0.00
ATOM	1279	CG	ARG .	A 88	3 137.308	-2.435	-3.921	1.00	0.00
ATOM	1280	CD	ARG .	A 88	3 135.810	-2.459	-3.658	1.00	0.00
ATOM	1281	NE	ARG	A 88	3 135.049	-1.912	-4.778	1.00	0.00
ATOM	1282	CZ	ARG	A 88	3 133.789	-1.490	-4.682	1.00	0.00
ATOM	1283	NH1	ARG	A 88	3 133.148	-1.550	-3.522	1.00	0.00
ATOM	1284	NH2	ARG	A 8	8 133.171	-1.005	-5.749	1.00	0.00
ATOM	1285	H	ARG	A 8	8 140.612	-1.296	-2.068	1.00	0.00
ATOM	1286	HA	ARG	A 8	8 137.816	-0.449	-2.386	1.00	0.00

ATOM	1287	1HB	ARG A	A	88	138.998	-3.121	-2.836	1.00	0.00
ATOM	1288	2HB	ARG A	A	88	137.502	-3.096	-1.914	1.00	0.00
ATOM	1289	1HG	ARG A	A	88	137.563	-1.504	-4.405	1.00	0.00
ATOM	1290	2HG	ARG A	A	88	137.564	-3.262	-4.568	1.00	0.00
ATOM	1291	1HD	ARG A	A	88	135.504	-3.481	-3.491	1.00	0.00
ATOM	1292	2HD	ARG .	A	88	135.604	-1.873	-2.773	1.00	0.00
ATOM	1293	HE	ARG .	A	88	135.498	-1.856	-5.647	1.00	0.00
ATOM	1294	1HH1	ARG .	A	88	133.608	-1.915	-2.713	1.00	0.00
ATOM	1295	2HH1	ARG .	A	88	132.203	-1.231	-3.456	1.00	0.00
ATOM	1296	1HH2	ARG .	A	88	133.649	-0.958	-6.626	1.00	0.00
ATOM	1297	2HH2	ARG .	A	88	132.225	-0.688	-5.678	1.00	0.00
ATOM	1298	N	PRO	A	89	137.344	-0.704	0.089	1.00	0.00
ATOM	1299	CA	PRO	A	89	137.157	-0.707	1.544	1.00	0.00
ATOM	1300	C	PRO	A	89	137.223	-2.113	2.132	1.00	0.00
ATOM	1301	0	PRO	A	89	136.564	-3.031	1.646	1.00	0.00
ATOM	1302	CB	PRO	A	89	135.757	-0.117	1.729	1.00	0.00
ATOM	1303	CG	PR0	A	89	135.519	0.693	0.503	1.00	0.00
ATOM	1304	CD	PRO	A	89	136.239	-0.019	-0.608	1.00	0.00
ATOM	1305	HA	PRO	A	89	137.884	-0.079	2.037	1.00	0.00
ATOM	1306	1HB	PRO	A	89	135.037	-0.916	1.822	1.00	0.00
ATOM	1307	2HB	PRO	A	89	135.737	0.498	2.617	1.00	0.00
ATOM	1308	1HG	PR0	A	89	134.461	0.740	0.294	1.00	0.00
ATOM	1309	2HG	PRO	A	89	135.922	1.686	0.635	1.00	0.00
ATOM	1310	1HD	PRO	A	89	135.584	-0.732	-1.086	1.00	0.00
ATOM	1311	2HD	PRO	A	89	136.619	0.691	-1.326	1.00	0.00
ATOM	1312	N	ASP	A	90	138.021	-2.273	3.183	1.00	0.00
ATOM	1313	CA	ASP	A	90	138.172	-3.568	3.838	1.00	0.00
ATOM	1314	С	ASP	A	90	137.378	-3.612	5.140	1.00	0.00
ATOM	1315	0	ASP	A	90	137.759	-2.992	6.133	1.00	0.00

ATOM 1	.316	CB	ASP A	90	139.648	-3.854	4.116 1.00 0.00
ATOM 1	1317	CG	ASP A	90	139.948	-5.339	4.174 1.00 0.00
ATOM 1	1318	OD1	ASP A	90	140.366	-5.819	5.248 1.00 0.00
ATOM 3	1319	OD2	ASP A	90	139.764	-6.022	3.144 1.00 0.00
ATOM 3	1320	Н	ASP A	. 90	138.520	-1.503	3.526 1.00 0.00
ATOM 1	1321	HA	ASP A	90	137.787	-4.323	3.170 1.00 0.00
ATOM 3	1322	1HB	ASP A	90	140.247	-3.414	3.333 1.00 0.00
ATOM :	1323	2HB	ASP A	90	139.921	-3.412	5.063 1.00 0.00
ATOM :	1324	N	SER A	91	136.274	-4.352	5.129 1.00 0.00
ATOM :	1325	CA	SER A	91	135.426	-4.478	6.310 1.00 0.00
ATOM	1326	С	SER A	91	135.724	-5.774	7.057 1.00 0.00
ATOM	1327	0	SER A	91	134.840	-6.355	7.688 1.00 0.00
ATOM	1328	CB	SER A	A 91	133.950	-4.434	5.911 1.00 0.00
ATOM	1329	OG	SER A	A 91	133.158	-3.879	6.947 1.00 0.00
ATOM	1330	H	SER A	A 91	136.023	-4.823	4.308 1.00 0.00
ATOM	1331	HA	SER A	A 91	135.639	-3.644	6.961 1.00 0.00
ATOM	1332	1HB	SER A	A 91	133.837	-3.827	5.024 1.00 0.00
ATOM	1333	2HB	SER A	A 91	133.605	-5.436	5.708 1.00 0.00
ATOM	1334	HG	SER .	A 91	132.243	-3.834	6.660 1.00 0.00
ATOM	1335	N	ARG .	A 92	2 136.972	-6.223	6.981 1.00 0.00
ATOM	1336	CA	ARG .	A 92	2 137.384	-7.451	7.650 1.00 0.00
ATOM	1337	С	ARG .	A 92	2 137.327	-7.291	9.166 1.00 0.00
ATOM	1338	0	ARG	A 92	2 137.085	-8.254	9.893 1.00 0.00
ATOM	1339	СВ	ARG	A 92	2 138.798	-7.842	7.220 1.00 0.00
ATOM	1340	CG	ARG	A 92	2 138.835	-8.741	5.995 1.00 0.00
ATOM	1341	CD	ARG	A 9	2 140.147	-9.503	5.902 1.00 0.00
ATOM	1342	NE	ARG	A 9	2 140.288	-10.485	6.976 1.00 0.00
ATOM	1343	CZ	ARG	A 9	2 139.667	-11.663	6.989 1.00 0.00
ATOM	1344	NH1	ARG	A 9	2 138.865	-12.010	5.991 1.00 0.00

ATOM	1345	NH2	ARG A	92	139.851	-12.496	8.004	1.00	0.00
ATOM	1346	Н	ARG A	92	137.632	-5.717	6.462	1.00	0.00
ATOM	1347	HA	ARG A	92	136.700	-8.234	7.358	1.00	0.00
ATOM	1348	1HB	ARG A	92	139.355	-6.944	6.997	1.00	0.00
ATOM	1349	2HB	ARG A	92	139.281	-8.361	8.035	1.00	0.00
ATOM	1350	1HG	ARG A	92	138.022	-9.450	6.056	1.00	0.00
ATOM	1351	2HG	ARG A	92	138.719	-8.133	5.109	1.00	0.00
ATOM	1352	1HD	ARG A	92	140.185	-10.016	4.953	1.00	0.00
ATOM	1353	2HD	ARG A	92	140.963	-8.798	5.962	1.00	0.00
ATOM	1354	HE	ARG A	92	140.875	-10.253	7.725	1.00	0.00
ATOM	1355	1HH1	ARG A	92	138.722	-11.386	5.223	1.00	0.00
ATOM	1356	2HH1	ARG A	92	138.403	-12.896	6.007	1.00	0.00
ATOM	1357	1HH2	ARG A	92	140.455	-12.240	8.758	1.00	0.00
ATOM	1358	2HH2	ARG A	92	139.385	-13.381	8.014	1.00	0.00
ATOM	1359	N	PHE A	93	137.554	-6.068	9.637	1.00	0.00
ATOM	1360	ÇA	PHE A	93	3 137.528	-5.782	11.067	1.00	0.00
ATOM	1361	С	PHE A	93	136.525	-4.678	11.385	1.00	0.00
ATOM	1362	0	PHE A	93	3 136.707	-3.917	12.335	1.00	0.00
ATOM	1363	CB	PHE A	93	3 138.921	-5.377	11.551	1.00	0.00
ATOM	1364	CG	PHE A	93	3 139.888	-6.524	11.626	1.00	0.00
ATOM	1365	CD1	PHE A	93	3 140.464	-6.884	12.834	1.00	0.00
ATOM	1366	CD2	PHE A	93	3 140.221	-7.243	10.489	1.00	0.00
ATOM	1367	CE1	PHE A	93	3 141.354	-7.938	12.907	1.00	0.00
ATOM	1368	CE2	PHE A	93	3 141.111	-8.298	10.555	1.00	0.00
ATOM	1369	CZ	PHE A	93	3 141.677	-8.646	11.765	1.00	0.00
ATOM	1370	Н	PHE A	93	3 137.741	-5.341	9.007	1.00	0.00
ATOM	1371	HA	PHE A	9:	3 137.227	-6.684	11.579	1.00	0.00
MOTA	1372	1HB	PHE A	9:	3 139.330	-4.642	10.874	1.00	0.00
ATOM	1373	2HB	PHE A	9:	3 138.839	-4.945	12.537	1.00	0.00

13.727 1.00 0.00 -6.330ATOM 1374 HD1 PHE A 93 140.212 9.543 1.00 0.00 -6.971HD293 139.778 ATOM 1375 PHE A 13.854 1.00 0.00 93 141.796 -8.208ATOM 1376 HE1 PHE A 9.662 1.00 0.00 -8.850ATOM 1377 HE2 PHE A 93 141.361 11.820 1.00 0.00 -9.471ATOM 1378 HZ PHE A 93 142.373 10.586 1.00 0.00 ATOM 1379 ALA A 94 135.467 -4.596N 10.785 1.00 0.00 ALA A 94 134.436 -3.584ATOM 1380 CA 11.602 1.00 0.00 94 133.274 -4.138ATOM 1381 C ALA A 11.227 1.00 0.00 0 ALA A 94 132.658 -5.136 ATOM 1382 ALA A 94 133.940 -3.0649.444 1.00 0.00 ATOM 1383 CB 94 135.376 -5.2319.844 1.00 0.00 ATOM 1384 H ALA A 11.322 1.00 0.00 94 134.879 -2.759ATOM 1385 HA ALA A 9.169 1.00 0.00 -3.584ALA A 94 133.035 ATOM 1386 1HB 94 134.696 -3.2358.691 1.00 0.00 ALA A ATOM 1387 2HB-2.0079.520 1.00 0.00 94 133.739 ATOM 1388 3HB ALA A -3.48512.721 1.00 0.00 95 132.980 SER A ATOM 1389 N 13.593 1.00 0.00 95 131.891 -3.913ATOM 1390 CA SER A 13.557 1.00 0.00 95 130.740 -2.913ATOM 1391 C SER A 13.314 1.00 0.00 95 130.944 -1.7240 SER A ATOM 1392 15.028 1.00 0.00 95 132.394 -4.078ATOM 1393 SER A CB 95 131.383 15.865 1.00 0.00 -4.612ATOM 1394 0G SER A 12.967 1.00 0.00 -2.69695 133.508 ATOM 1395 H SER A 13.234 1.00 0.00 95 131.535 -4.867ATOM 1396 HA SER A 15.035 1.00 0.00 95 133.240 -4.748ATOM 1397 1HB SER A 15.415 1.00 0.00 95 132.695 -3.115 ATOM 1398 2HB SER A 15.493 1.00 0.00 SER A 95 131.061 -5.436 ATOM 1399 HG 13.802 1.00 0.00 -3.404LEU A 96 129.529 ATOM 1400 N 96 128.344 -2.554 13.798 1.00 0.00 ATOM 1401 CA LEU A 96 127.403 -2.931 14.938 1.00 0.00 ATOM 1402 C LEU A

ATOM 1403	0	LEU A	96	126.670	-3.916	14.852 1.00 0.00
ATOM 1404	СВ	LEU A	96	127.616	-2.665	12.456 1.00 0.00
ATOM 1405	CG	LEU A	96	127.763	-1.451	11.537 1.00 0.00
ATOM 1406	CD1	LEU A	96	129.230	-1.182	11.239 1.00 0.00
ATOM 1407	CD2	LEU A	96	126.985	-1.664	10.247 1.00 0.00
ATOM 1408	Н	LEU A	96	129.430	-4.361	13.989 1.00 0.00
ATOM 1409	HA	LEU A	96	128.669	-1.534	13.938 1.00 0.00
ATOM 1410	1HB	LEU A	96	127.996	-3.533	11.936 1.00 0.00
ATOM 1411	2HB	LEU A	96	126.564	-2.816	12.649 1.00 0.00
ATOM 1412	HG	LEU A	96	127.358	-0.581	12.034 1.00 0.00
ATOM 1413	1HD1	LEU A	96	129.616	-0.468	11.952 1.00 0.00
ATOM 1414	2HD1	LEU A	96	129.327	-0.782	10.241 1.00 0.00
ATOM 1415	3HD1	LEU A	96	129.788	-2.103	11.315 1.00 0.00
ATOM 1416	1HD2	LEU A	96	125.972	-1.959	10.481 1.00 0.00
ATOM 1417	2HD2	LEU A	96	127.460	-2.438	9.663 1.00 0.00
ATOM 1418	3HD2	2 LEU A	96	126.969	-0.743	9.681 1.00 0.00
ATOM 1419	N	GLN A	97	127.429	-2.139	16.006 1.00 0.00
ATOM 1420	CA	GLN A	97	126.577	-2.389	17.163 1.00 0.00
ATOM 1421	С	GLN A	97	126.881	-3.753	17.778 1.00 0.00
ATOM 1422	0	GLN A	97	7 126.251	-4.753	17.433 1.00 0.00
ATOM 1423	CB	GLN A	97	7 125.102	-2.314	16.763 1.00 0.00
ATOM 1424	CG	GLN A	97	7 124.743	-1.048	16.001 1.00 0.00
ATOM 1425	CD	GLN A	97	7 124.686	0.175	16.897 1.00 0.00
ATOM 1426	0E1	GLN A	. 9'	7 123.756	0.338	17.686 1.00 0.00
ATOM 1427	NE2	GLN A	. 9'	7 125.684	1.041	16.778 1.00 0.00
ATOM 1428	ВН	GLN A	. 9'	7 128.035	-1.369	16.015 1.00 0.00
ATOM 1429) HA	GLN A	9	7 126.782	2 -1.623	17.896 1.00 0.00
ATOM 1430) 1HE	GLN A	9	7 124.867	⁷ -3.162	16.139 1.00 0.00
ATOM 1433	l 2HE	GLN A	9	7 124.497	7 –2.355	17.656 1.00 0.00

15.236 1.00 0.00 97 125.485 -0.880ATOM 1432 GLN A 1HG -1.18415.540 1.00 0.00 GLN A 97 123.775 ATOM 1433 2HG 16.128 1.00 0.00 97 126.392 0.846 1HE2 GLN A ATOM 1434 17.345 1.00 0.00 1.841 2HE2 GLN A 97 125.673 ATOM 1435 18.702 1.00 0.00 -3.81298 127.854 PRO A ATOM 1436 N 19.366 1.00 0.00 98 128.239 -5.063ATOM 1437 PRO A CA 19.971 1.00 0.00 PRO A -5.789C 98 127.043 ATOM 1438 20.094 1.00 0.00 -7.014PRO A 98 127.044 ATOM 1439 0 20.467 1.00 0.00 -4.60298 129.197 ATOM 1440 CB PRO A 19.969 1.00 0.00 -3.315PRO A 98 129.755 CG ATOM 1441 19.173 1.00 0.00 -2.66898 128.656 CD · PRO A ATOM 1442 18.689 1.00 0.00 -5.72698 128.755 PRO A ATOM 1443 HA 21.389 1.00 0.00 98 128.652 -4.467PRO A ATOM 1444 1HB-5.34120.605 1.00 0.00 98 129.973 PRO A ATOM 1445 2HB-2.68820.803 1.00 0.00 98 130.034 1HG PRO A ATOM 1446 19.338 1.00 0.00 -3.505PRO A 98 130.611 ATOM 1447 2HG 19.803 1.00 0.00 -2.01798 128.067 PRO A ATOM 1448 1HD 18.340 1.00 0.00 -2.11798 129.067 PRO A ATOM 1449 2HD 20.346 1.00 0.00 -5.02599 126.021 ATOM 1450 N SER A 20.940 1.00 0.00 -5.59699 124.818 CA SER A ATOM 1451 20.323 1.00 0.00 -4.98399 123.564 C SER A ATOM 1452 19.855 1.00 0.00 -3.84599 123.584 0 SER A ATOM 1453 22.453 1.00 0.00 -5.377ATOM 1454 CB SER A 99 124.815 23.127 1.00 0.00 -6.469ATOM 1455 0G SER A 99 125.417 20.222 1.00 0.00 -4.054H SER A 99 126.079 ATOM 1456 20.738 1.00 0.00 99 124.820 -6.657SER A ATOM 1457 HA 22.686 1.00 0.00 99 125.367 -4.479SER A ATOM 1458 1HB 22.798 1.00 0.00 -5.273 SER A 99 123.797 2HB ATOM 1459 23.516 1.00 0.00 -7.02199 124.734 HG SER A ATOM 1460

ATOM 14	l 61	N	GLY	A	100	122.47	5 –5	. 744	20.327	1.00	0.00	
ATOM 14	162	CA	GLY	A	100	121.22	9 –5	. 258	19.766	1.00	0.00	
ATOM 14	163	С	GLY	A	100	120.59	4 -4	. 171	20.614	1.00	0.00	
ATOM 14	464	0	GLY	A	100	120.43	4 –3	. 039	20.157	1.00	0.00	
ATOM 14	465	Н	GLY	A	100	122.51	8 -6	. 644	20.714	1.00	0.00	
ATOM 14	466	1HA	GLY	A	100	121.42	0 -4	. 864	18.779	1.00	0.00	
ATOM 1	467	2HA	GLY	A	100	120.53	57 −6	. 085	19.685	1.00	0.00	
ATOM 1	468	N	PRO	A	101	120.22	1 -4	. 486	21.866	1.00	0.00	
ATOM 1	469	CA	PRO	A	101	119.60	00 –3	3.515	22.773	1.00	0.00	
ATOM 1	470	С	PRO	A	101	120.58	32 –2	2.443	23. 233	1.00	0.00	
ATOM 1	471	0	PRO	A	101	121.47	75 –2	2.709	24.038	1.00	0.00	
ATOM 1	472	CB	PRO	A	101	119.15	50 -4	1.372	23.959	1.00	0.00	
ATOM 1	.473	CG	PRO	A	101	120.06	62 -	5.549	23.942	1.00	0.00	
ATOM 1	474	CD	PRO	A	101	120.37	74 -	5.812	22.495	1.00	0.00	
ATOM 1	1475	HA	PRO	A	101	118.74	41 -	3.043	22.319	1.00	0.00	
ATOM 1	1476	1HB	PRO) A	101	119.2	49 –	3.806	24.873	3 1.00	0.00	
ATOM I	1477	2HB	PRO) A	101	118.1	21 -	4.669	23.82	1.00	0.00	
ATOM 3	1478	1HG	PRO) A	101	120.9	66 –	5.320	24.485	5 1.00	0.00	
ATOM :	1479	2HG	PRO) A	101	119.5	66 –	6.403	24.379	9 1.00	0.00	
ATOM :	1480	1HD	PRO) A	10	121.3	86 –	6.175	22.38	7 1.0	0.00	
ATOM	1481	2HD	PRO) <i>A</i>	10	119.6	571 –	6.518	22.07	9 1.0	0.00	
ATOM	1482	N	SEI	R	102	2 120.4	-10	1.230	22.71	8 1.0	0.00	
ATOM	1483	CA	SE	R I	A 10	2 121.2	282 -	-0.117	23.07	7 1.0	0.00	
ATOM	1484	С	SE	R A	A 10	2 120.7	786	0.576	24.34	1 1.0	0 0.00	
ATOM	1485	0	SE	R A	A 10	2 121.5	581	1.051	25.15	3 1.0	0.00	
ATOM	1486	CB	SE	R .	A 10	2 121.3	358	0.889	21.92	6 1.0	0.00	
ATOM	1487	OG	SE	R.	A 10	2 120.0)64	1.307	21.52	7 1.0	0.00	ļ
ATOM	1488	H	SE	R	A 10	2 119.6	679 -	-1.080	22.08	1 1.0	0.00	ļ
ATOM	1489	HA	SE	R	A 10	2 122.2	268 -	-0.515	23.26	1 1.0	0.00)

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22.245 1.00 0.00
           1HB
                SER A 102 121.918
                                     1.755
ATOM 1490
                                            21.082 1.00 0.00
           2HB
                SER A 102 121.851
                                     0.430
ATOM 1491
ATOM 1492
                SER A 102 119.966
                                     2.248
                                            21.690 1.00 0.00
           HG
                                            24.503 1.00 0.00
ATOM 1493
           N
                SER A 103 119.468
                                     0.630
                                            25.670 1.00 0.00
                SER A 103 118.867
                                     1.265
ATOM 1494
           CA
                                     0.543
                                            26.952 1.00 0.00
ATOM 1495
           C
                 SER A 103 119.270
                                             27.240 1.00 0.00
                                    -0.550
                 SER A 103 118.782
ATOM 1496
           0
                                             25.539 1.00 0.00
                 SER A 103 117.343
                                     1.283
ATOM 1497
           CB
                                             26.058 1.00 0.00
                                     2.484
                 SER A 103 116.799
ATOM 1498
           0G
                                             23.821 1.00 0.00
                                     0.234
                 SER A 103 118.886
           H
ATOM 1499
                                             25.716 1.00 0.00
                                     2.282
                 SER A 103 119.226
ATOM 1500
           HA
                                             24.497 1.00 0.00
                                      1.202
ATOM 1501
            1HB
                 SER A 103 117.073
                 SER A 103 116.927
                                      0.448
                                             26.083 1.00 0.00
ATOM 1502
            2HB
                                             26.864 1.00 0.00
                                      2.293
            HG
                 SER A 103 116.312
ATOM 1503
                                             27.717 1.00 0.00
                                      1.160
ATOM 1504
            N
                 GLY A 104 120.165
                                             28.957 1.00 0.00
                                      0.561
                 GLY A 104 120.618
ATOM 1505
            CA
                                             30.022 1.00 0.00
                                      0.545
 ATOM 1506
            C
                 GLY A 104 119.539
                                             31.070 1.00 0.00
                 GLY A 104 119.748
                                     -0.103
 ATOM 1507
            0
                                             29.809 1.00 0.00
                 GLY A 104 118.485
                                      1.179
 ATOM 1508
            OXT
                                             27.436 1.00 0.00
                                      2.029
 ATOM 1509
            H
                  GLY A 104 120.520
                                             28.762 1.00 0.00
 ATOM 1510
            1HA
                 GLY A 104 120.930
                                     -0.455
                  GLY A 104 121.464
                                              29.327 1.00 0.00
 ATOM 1511
            2HA
                                      1.121
 TER 1512
                  GLY A 104
 ENDMDL
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[0099]

立体構造座標表 2

ATOM 1 N GLY A 1 105.215 7.354 -0.195 1.00 0.00 ATOM 2 CA GLY A 1 106.288 6.361 -0.481 1.00 0.00

ATOM 3	С	GLY A	1 107.290	6.250	0.651 1.00 0.00
ATOM 4	0	GLY A	1 107.077		1.734 1.00 0.00
ATOM 5	1H	GLY A	1 105.533	8.026	0.533 1.00 0.00
ATOM 6	2H	GLY A	1 104.360	6.869	0.147 1.00 0.00
ATOM 7	3H	GLY A	1 104.976	7.882	-1.060 1.00 0.00
ATOM 8	1HA	GLY A	1 105.834	5.395	-0.642 1.00 0.00
ATOM 9	2HA	GLY A	1 106.807	6.659	-1.380 1.00 0.00
ATOM 10	N	SER A	2 108.386	5.542	0.400 1.00 0.00
ATOM 11	CA	SER A	2 109.426	5.360	1.405 1.00 0.00
ATOM 12	С	SER A	2 110.256	6.629	1.565 1.00 0.00
ATOM 13	0	SER A	2 110.259	7.496	0.691 1.00 0.00
ATOM 14	CB	SER A	2 110.332	4.187	1.026 1.00 0.00
ATOM 15	OG	SER A	2 109.867	2.977	1.597 1.00 0.00
ATOM 16	H	SER A	2 108.498	5.132	-0.484 1.00 0.00
ATOM 17	HA	SER A	2 108.942	5.140	2.346 1.00 0.00
ATOM 18	1HB	SER A	2 110.348	4.080	-0.048 1.00 0.00
ATOM 19	2HB	SER A	2 111.334	4.379	1.384 1.00 0.00
ATOM 20	HG	SER A	2 110.095	2.955	2.530 1.00 0.00
ATOM 21	N	SER A	3 110.962	6.731	2.687 1.00 0.00
ATOM 22	CA	SER A	3 111.797	7.894	2.960 1.00 0.00
ATOM 23	С	SER A	3 113.078	7.853	2.131 1.00 0.00
ATOM 24	0	SER A	3 113.500	8.866	1.573 1.00 0.00
ATOM 25	CB	SER A	3 112.142	7.961	4.450 1.00 0.00
ATOM 26	OG	SER A	3 113.199	7.072	4.769 1.00 0.00
ATOM 27	Н	SER A	3 110.920	6.008	3.346 1.00 0.00
ATOM 28	HA	SER A	3 111.237	8.777	2.690 1.00 0.00
ATOM 29	1HB	SER A	3 112.447	8.967	4.702 1.00 0.00
ATOM 30	2HB	SER A	3 111.272	7.692	5.031 1.00 0.00
ATOM 31	HG	SER A	3 112.849	6.184	4.872 1.00 0.00

ATOM 32	N	GLY A	4 113.690	6.676	2.056 1.00 0.00
ATOM 33	CA	GLY A	4 114.915	6.525	1.294 1.00 0.00
ATOM 34	С	GLY A	4 116.155	6.661	2.156 1.00 0.00
ATOM 35	0	GLY A	4 116.173	7.435	3.112 1.00 0.00
ATOM 36	H	GLY A	4 113.307	5.904	2.523 1.00 0.00
ATOM 37	1HA	GLY A	4 114.918	5.550	0.828 1.00 0.00
ATOM 38	2HA	GLY A	4 114.941	7.280	0.523 1.00 0.00
ATOM 39	N	SER A	5 117.194	5.905	1.817 1.00 0.00
ATOM 40	CA	SER A	5 118.444	5.943	2.567 1.00 0.00
ATOM 41	С	SER A	5 119.548	5.197	1.823 1.00 0.00
ATOM 42	0	SER A	5 119.739	3.997	2.018 1.00 0.00
ATOM 43	CB	SER A	5 118.248	5.336	3.957 1.00 0.00
ATOM 44	OG	SER A	5 117.949	3.954	3.871 1.00 0.00
ATOM 45	Н	SER A	5 117.119	5.306	1.044 1.00 0.00
ATOM 46	HA	SER A	5 118.734	6.978	2.673 1.00 0.00
ATOM 47	1HB	SER A	5 119.154	5.461	4.533 1.00 0.00
ATOM 48	2HB	SER A	5 117.433	5.839	4.455 1.00 0.00
ATOM 49	HG	SER A	5 117.186	3.826	3.304 1.00 0.00
ATOM 50	N	SER A	6 120.271	5.917	0.971 1.00 0.00
ATOM 51	CA	SER A	6 121.355	5.322	0.198 1.00 0.00
ATOM 52	С	SER A	6 122.687	5.469	0.929 1.00 0.00
ATOM 53	0	SER A	6 123.365	6.489	0.805 1.00 0.00
ATOM 54	CB	SER A	6 121.443	5.975	-1.182 1.00 0.00
ATOM 55	OG	SER A	6 120.178	5.990	-1.821 1.00 0.00
ATOM 56	Н	SER A	6 120.070	6.869	0.859 1.00 0.00
ATOM 57	HA	SER A	6 121.140	4.271	0.077 1.00 0.00
ATOM 58	1HB	SER A	6 121.790	6.992	-1.076 1.00 0.00
ATOM 59	2HB	SER A	6 122.137	5.420	-1.796 1.00 0.00
ATOM 60	HG	SER A	6 119.653	6.716	-1.475 1.00 0.00

ATOM 61	N	GLY A	7 123.055	4.444	1.688 1.00 0.00
ATOM 62	CA	GLY A	7 124.304	4.477	2.428 1.00 0.00
ATOM 63	С	GLY A	7 125.284	3.418	1.960 1.00 0.00
ATOM 64	0	GLY A	7 126.040	2.867	2.760 1.00 0.00
ATOM 65	H	GLY A	7 122.474	3.656	1.750 1.00 0.00
ATOM 66	1HA	GLY A	7 124.757	5.450	2.304 1.00 0.00
ATOM 67	2HA	GLY A	7 124.095	4.321	3.475 1.00 0.00
ATOM 68	N	LEU A	8 125.269	3.134	0.662 1.00 0.00
ATOM 69	CA	LEU A	8 126.163	2.134	0.089 1.00 0.00
ATOM 70	С	LEU A	8 127.308	2.798	-0.668 1.00 0.00
ATOM 71	0	LEU A	8 128.424	2.279	-0.705 1.00 0.00
ATOM 72	CB	LEU A	8 125.389	1.205	-0.847 1.00 0.00
ATOM 73	CG	LEU A	8 124.503	0.173	-0.148 1.00 0.00
ATOM 74	CD1	LEU A	8 123.307	-0.182	-1.018 1.00 0.00
ATOM 75	CD2	LEU A	8 125.306	-1.075	0.192 1.00 0.00
ATOM 76	Н	LEU A	8 124.644	3.608	0.076 1.00 0.00
ATOM 77	HA	LEU A	8 126.573	1.553	0.901 1.00 0.00
ATOM 78	1HB	LEU A	8 124.763	1.811	-1.486 1.00 0.00
ATOM 79	2HB	LEU A	8 126.099	0.676	-1.465 1.00 0.00
ATOM 80	HG	LEU A	8 124.130	0.594	0.775 1.00 0.00
ATOM 81	1HD	1 LEU A	8 122.467	-0.437	-0.390 1.00 0.00
ATOM 82	2HD	1 LEU A	8 123.557	-1.026	-1.646 1.00 0.00
ATOM 83	3HD	1 LEU A	8 123.050	0.664	-1.638 1.00 0.00
ATOM 84	1HD	2 LEU A	8 124.669	-1.943	0.118 1.00 0.00
ATOM 85	2HD	2 LEU A	8 125.689	-0.992	1.198 1.00 0.00
ATOM 86	3HD	2 LEU A	8 126.129	-1.171	-0.500 1.00 0.00
ATOM 87	N	ALA A	9 127.025	3.949	-1.271 1.00 0.00
ATOM 88	CA	ALA A	9 128.032	4.684	-2.027 1.00 0.00
ATOM 89	С	ALA A	9 128.353	6.018	-1.362 1.00 0.00

ATOM 90	0	ALA A	9 127.467	6.685	-0.828 1.00 0.00
ATOM 91	CB	ALA A	9 127.559	4.904	-3.456 1.00 0.00
ATOM 92	H	ALA A	9 126.117	4.312	-1.204 1.00 0.00
ATOM 93	HA	ALA A	9 128.930	4.083	-2.058 1.00 0.00
ATOM 94	1HB	ALA A	9 126.948	4.070	-3.766 1.00 0.00
ATOM 95	2HB	ALA A	9 128.415	4.986	-4.110 1.00 0.00
ATOM 96	ЗНВ	ALA A	9 126.979	5.813	-3.507 1.00 0.00
ATOM 97	N	MET A	10 129.625	6.399	-1.399 1.00 0.00
ATOM 98	CA	MET A	10 130.064	7.654	-0.799 1.00 0.00
ATOM 99	С	MET A	10 131.140	8.320	-1.656 1.00 0.00
ATOM 100	0	MET A	10 132.329	8.052	-1.490 1.00 0.00
ATOM 101	CB	MET A	10 130.601	7.410	0.612 1.00 0.00
ATOM 102	CG	MET A	10 129.515	7.117	1.634 1.00 0.00
ATOM 103	SD	MET A	10 130.052	5.956	2.905 1.00 0.00
ATOM 104	CE	MET A	10 128.479	5.283	3.435 1.00 0.00
ATOM 105	H	MET A	10 130.285	5.823	-1.839 1.00 0.00
ATOM 106	HA	MET A	10 129.209	8.311	-0.740 1.00 0.00
ATOM 107	1HB	MET A	10 131.277	6.568	0.586 1.00 0.00
ATOM 108	2HB	MET A	10 131.144	8.286	0.935 1.00 0.00
ATOM 109	1HG	MET A	10 129.229	8.043	2.110 1.00 0.00
ATOM 110	2HG	MET A	10 128.661	6.699	1.121 1.00 0.00
ATOM 111	1HE	MET A	10 127.696	6.001	3.239 1.00 0.00
ATOM 112	2HE	MET A	10 128.516	5.071	4.493 1.00 0.00
ATOM 113	3HE	MET A	10 128.277	4.371	2.892 1.00 0.00
ATOM 114	N	PRO A	11 130.733	9.201	-2.588 1.00 0.00
ATOM 115	CA	PRO A	11 131.672	9.903	-3.467 1.00 0.00
ATOM 116	С	PRO A	11 132.708	10.710	-2.687 1.00 0.00
ATOM 117	0	PRO A	11 133.901	10.639	-2.976 1.00 0.00
ATOM 118	CB	PRO A	11 130.781	10.836	-4.295 1.00 0.00

ATOM 119	CG	PRO A	11 129.406	10.270	-4.185 1.00 0.00
ATOM 120	CD	PRO A	11 129.335	9.581	-2.851 1.00 0.00
ATOM 121	HA	PRO A	11 132.181	9.214	-4.125 1.00 0.00
ATOM 122	1HB	PRO A	11 130.831	11.836	-3.892 1.00 0.00
ATOM 123	2HB	PRO A	11 131.120	10.841	-5.321 1.00 0.00
ATOM 124	1HG	PRO A	11 128.680	11.066	-4.229 1.00 0.00
ATOM 125	2HG	PRO A	11 129.236	9.561	-4.981 1.00 0.00
ATOM 126	1HD	PRO A	11 128.971	10.260	-2.095 1.00 0.00
ATOM 127	2HD	PRO A	11 128.704	8.707	-2.911 1.00 0.00
ATOM 128	N	PRO A	12 132.269	11.487	-1.678 1.00 0.00
ATOM 129	CA	PRO A	12 133.179	12.297	-0.861 1.00 0.00
ATOM 130	С	PRO A	12 134.284	11.455	-0.232 1.00 0.00
ATOM 131	0	PRO A	12 135.340	11.970	0.133 1.00 0.00
ATOM 132	CB	PRO A	12 132.272	12.882	0.225 1.00 0.00
ATOM 133	CG	PRO A	12 130.903	12.847	-0.360 1.00 0.00
ATOM 134	CD	PRO A	12 130.866	11.636	-1.249 1.00 0.00
ATOM 135	HA	PRO A	12 133.622	13.096	-1.437 1.00 0.00
ATOM 136	1HB	PRO A	12 132.336	12.276	1.117 1.00 0.00
ATOM 137	2HB	PRO A	12 132.579	13.893	0.447 1.00 0.00
ATOM 138	1HG	PRO A	12 130.170	12.758	0.426 1.00 0.00
ATOM 139	2HG	PRO A	12 130.728	13.741	-0.940 1.00 0.00
ATOM 140	1HD	PRO A	12 130.539	10.770	-0.691 1.00 0.00
ATOM 141	2HD	PRO A	12 130.219	11.809	-2.094 1.00 0.00
ATOM 142	N	GLY A	13 134.030	10.155	-0.108 1.00 0.00
ATOM 143	CA	GLY A	13 135.012	9.261	0.477 1.00 0.00
ATOM 144	С	GLY A	13 135.208	7.999	-0.339 1.00 0.00
ATOM 145	0	GLY A	13 135.145	6.891	0.193 1.00 0.00
ATOM 146	Н	GLY A	13 133.170	9.800	-0.417 1.00 0.00
ATOM 147	1HA	GLY A	13 135.957	9.779	0.552 1.00 0.00

ATOM	148	2HA	GLY A	A 1	.3	134.686	8.986	1.470	1.00	0.00
ATOM	149	N	ASN A	A 1	4	135.447	8.169	-1.638	1.00	0.00
ATOM	150	CA	ASN .	A 1	4	135.654	7.038	-2.536	1.00	0.00
ATOM	151	С	ASN .	A]	.4	134.405	6.163	-2.612	1.00	0.00
ATOM	152	0	ASN .	A 1	4	133.628	6.256	-3.562	1.00	0.00
ATOM	153	СВ	ASN .	A]	4	136.854	6.205	-2.078	1.00	0.00
ATOM	154	CG	ASN .	A J	4	138.169	6.936	-2.265	1.00	0.00
ATOM	155	OD1	ASN .	A]	4	138.694	7.023	-3.375	1.00	0.00
ATOM	156	ND2	ASN .	A 3	4	138.711	7.466	-1.173	1.00	0.00
ATOM	157	Н	ASN .	A]	4	135.485	9.078	-2.000	1.00	0.00
MOTA	158	HA	ASN .	A :	L 4	135.858	7.433	-3.520	1.00	0.00
ATOM	159	1HB	ASN .	A .	4	136.742	5.965	-1.032	1.00	0.00
ATOM	160	2HB	ASN	A :	14	136.888	5.290	-2.652	1.00	0.00
ATOM	161	1HD2	ASN	A .	14	138.237	7.357	-0.322	1.00	0.00
ATOM	162	2HD2	ASN	A :	14	139.561	7.945	-1.264	1.00	0.00
ATOM	163	N	SER	A :	15	134.219	5.312	-1.607	1.00	0.00
ATOM	164	CA	SER	A :	15	133.065	4.422	-1.564	1.00	0.00
ATOM	165	С	SER	A :	15	132.542	4.276	-0.139	1.00	0.00
ATOM	166	0	SER	A :	15	131.340	4.379	0.107	1.00	0.00
ATOM	167	CB	SER	A :	15	133.432	3.048	-2.127	1.00	0.00
ATOM	168	OG	SER	A :	15	132.293	2.391	-2.653	1.00	0.00
ATOM	169	Н	SER	A :	15	134.872	5.282	-0.878	1.00	0.00
ATOM	170	HA	SER	A	15	132.289	4.856	-2.176	1.00	0.00
ATOM	171	1HB	SER	A	15	134.159	3.167	-2.917	1.00	0.00
ATOM	172	2HB	SER	A	15	133.853	2.439	-1.340	1.00	0.00
ATOM	173	HG	SER	A	15	131.783	3.007	-3.183	1.00	0.00
ATOM	174	N	HIS	A	16	133.453	4.036	0.799	1.00	0.00
ATOM	175	CA	HIS	A	16	133.084	3.876	2.201	1.00	0.00
ATOM	176	С	HIS	A	16	133.923	4.787	3.092	1.00	0.00

ATOM 177	0	HIS A	16 133.400	5.454	3.984 1.00 0.00
ATOM 178	CB	HIS A	16 133.259	2.420	2.633 1.00 0.00
ATOM 179	CG	HIS A	16 132.025	1.591	2.457 1.00 0.00
ATOM 180	ND1	HIS A	16 131.474	0.835	3.472 1.00 0.00
ATOM 181	CD2	HIS A	16 131.232	1.401	1.377 1.00 0.00
ATOM 182	CE1	HIS A	16 130.397	0.216	3.023 1.00 0.00
ATOM 183	NE2	HIS A	16 130.227	0.543	1.755 1.00 0.00
ATOM 184	Н	HIS A	16 134.396	3.965	0.542 1.00 0.00
ATOM 185	HA	HIS A	16 132.045	4.150	2.304 1.00 0.00
ATOM 186	1HB	HIS A	16 134.047	1.970	2.047 1.00 0.00
ATOM 187	2HB	HIS A	16 133.534	2.391	3.678 1.00 0.00
ATOM 188	HD1	HIS A	16 131.822	0.763	4.385 1.00 0.00
ATOM 189	HD2	HIS A	16 131.363	1.841	0.399 1.00 0.00
ATOM 190	HE1	HIS A	16 129.763	-0.444	3.596 1.00 0.00
ATOM 191	HE2	HIS A	16 129.457	0.291	1.205 1.00 0.00
ATOM 192	N	GLY A	17 135.229	4.809	2.843 1.00 0.00
ATOM 193	CA	GLY A	17 136.120	5.641	3.630 1.00 0.00
ATOM 194	C	GLY A	17 137.532	5.092	3.679 1.00 0.00
ATOM 195	0	GLY A	17 138.032	4.742	4.748 1.00 0.00
ATOM 196	Н	GLY A	17 135.589	4.257	2.119 1.00 0.00
ATOM 197	1HA	GLY A	17 136.145	6.631	3.200 1.00 0.00
ATOM 198	2HA	GLY A	17 135.736	5.707	4.637 1.00 0.00
ATOM 199	N	LEU A	18 138.175	5.015	2.519 1.00 0.00
ATOM 200	CA	LEU A	18 139.539	4.503	2.434 1.00 0.00
ATOM 201	С	LEU A	18 140.547	5.574	2.836 1.00 0.00
ATOM 202	0	LEU A	18 140.918	6.426	2.029 1.00 0.00
ATOM 203	CB	LEU A	18 139.833	4.014	1.015 1.00 0.00
ATOM 204	CG	LEU A	18 138.730	3.165	0.380 1.00 0.00
ATOM 205	CD1	LEU A	18 138.853	3.178	-1.136 1.00 0.00

ATOM	206	CD2	LEU	A	18	138.786	1.740	0.909	1.00	0.00
ATOM	207	H	LEU	A	18	137.723	5.308	1.701	1.00	0.00
ATOM	208	HA	LEU	A	18	139.623	3.672	3.116	1.00	0.00
ATOM	209	1HB	LEU	A	18	140.002	4.877	0.387	1.00	0.00
ATOM	210	2HB	LEU	A	18	140.739	3.426	1.040	1.00	0.00
ATOM	211	HG	LEU	A	18	137.769	3.583	0.641	1.00	0.00
ATOM	212	1HD1	LEU	A	18	139.875	2.973	-1.416	1.00	0.00
ATOM	213	2HD1	LEU	A	18	138.564	4.149	-1.512	1.00	0.00
ATOM	214	3HD1	LEU	A	18	138.205	2.423	-1.556	1.00	0.00
ATOM	215	1HD2	LEU	A	18	137.874	1.224	0.648	1.00	0.00
ATOM	216	2HD2	LEU	A	18	138.895	1.758	1.983	1.00	0.00
ATOM	217	3HD2	LEU	A	18	139.629	1.226	0.470	1.00	0.00
ATOM	218	N	GLU	A	19	140.988	5.523	4.088	1.00	0.00
ATOM	219	CA	GLU	A	19	141.956	6.488	4.598	1.00	0.00
ATOM	220	С	GLU	A	19	143.006	5.799	5.464	1.00	0.00
ATOM	221	0	GLU	A	19	142.962	4.585	5.662	1.00	0.00
ATOM	222	CB	GLU	A	19	141.246	7.576	5.405	1.00	0.00
ATOM	223	CG	GLU	A	19	140.290	7.030	6.453	1.00	0.00
ATOM	224	CD	GLU	A	19	140.046	8.008	7.586	1.00	0.00
ATOM	225	OE1	GLU	A	19	139.639	7.561	8.679	1.00	0.00
ATOM	226	0E2	GLU	A	19	140.261	9.220	7.380	1.00	0.00
ATOM	227	H	GLU	A	19	140.656	4.819	4.684	1.00	0.00
ATOM	228	HA	GLU	A	19	142.447	6.944	3.751	1.00	0.00
ATOM	229	1HB	GLU	A	19	141.989	8.180	5.907	1.00	0.00
ATOM	230	2HB	GLU	A	19	140.683	8.202	4.728	1.00	0.00
ATOM	231	1HG	GLU	A	19	139.345	6.807	5.981	1.00	0.00
ATOM	232	2HG	GLU	A	19	140.708	6.122	6.864	1.00	0.00
MOTA	233	N	VAL	A	20	143.949	6.582	5.978	1.00	0.00
ATOM	234	CA	VAL	A	20	145.009	6.047	6.822	1.00	0.00

ATOM	235	С	VAL A	20	144.435	5.407	8.082	1.00	0.00
ATOM	236	0	VAL A	20	143.542	5.963	8.722	1.00	0.00
ATOM	237	CB	VAL A	20	146.013	7.144	7.229	1.00	0.00
ATOM	238	CG1	VAL A	20	147.191	6.540	7.979	1.00	0.00
ATOM	239	CG2	VAL A	20	146.489	7.914	6.004	1.00	0.00
ATOM	240	Н	VAL A	20	143.931	7.543	5.783	1.00	0.00
ATOM	241	HA	VAL A	20	145.539	5.294	6.257	1.00	0.00
ATOM	242	HB	VAL A	20	145.512	7.835	7.889	1.00	0.00
ATOM	243	1HG1	VAL A	20	147.488	5.618	7.501	1.00	0.00
ATOM	244	2HG1	VAL A	20	146.903	6.341	9.000	1.00	0.00
ATOM	245	3HG1	VAL A	20	148.019	7.235	7.967	1.00	0.00
ATOM	246	1HG2	VAL A	20	147.486	7.592	5.743	1.00	0.00
ATOM	247	2HG2	VAL A	20	146.498	8.971	6.226	1.00	0.00
ATOM	248	3HG2	VAL A	20	145.821	7.726	5.177	1.00	0.00
ATOM	249	N	GLY A	21	144.954	4.234	8.432	1.00	0.00
ATOM	250	CA	GLY A	21	144.482	3.538	9.615	1.00	0.00
ATOM	251	C	GLY A	21	143.450	2.476	9.287	1.00	0.00
ATOM	252	0	GLY A	21	143.375	1.447	9.959	1.00	0.00
ATOM	253	H	GLY A	21	145.665	3.840	7.885	1.00	0.00
ATOM	254	1HA	GLY A	21	145.323	3.069	10.104	1.00	0.00
ATOM	255	2HA	GLY A	21	144.039	4.256	10.290	1.00	0.00
ATOM	256	N	SER A	22	2 142.655	2.725	8.253	1.00	0.00
ATOM	257	CA	SER A	22	2 141.623	1.781	7.837	1.00	0.00
ATOM	258	C	SER A	22	2 142.196	0.728	6.895	1.00	0.00
ATOM	259	0	SER A	22	2 143.138	0.996	6.147	1.00	0.00
ATOM	260	CB	SER A	22	2 140.471	2.521	7.154	1.00	0.00
ATOM	261	OG	SER A	22	2 140.308	3.821	7.694	1.00	0.00
ATOM	262	Н	SER A	22	2 142.764	3.562	7.756	1.00	0.00
ATOM	263	HA	SER A	22	2 141.249	1.289	8.722	1.00	0.00

ATOM	264	1HB	SER A	22	140.678	2.607	6.098	1.00	0.00
ATOM	265	2HB	SER A	22	139.556	1.967	7.298	1.00	0.00
ATOM	266	HG	SER A	A 22	140.349	3.777	8.653	1.00	0.00
ATOM	267	N	LEU A	A 23	141.624	-0.470	6.936	1.00	0.00
ATOM	268	CA	LEU A	A 23	142.078	-1.564	6.086	1.00	0.00
ATOM	269	С	LEU A	A 23	141.426	-1.492	4.709	1.00	0.00
ATOM	270	0	LEU A	A 23	140. 229	-1.231	4.590	1.00	0.00
ATOM	271	CB	LEU A	A 23	141.763	-2.911	6.740	1.00	0.00
ATOM	272	CG	LEU A	A 23	142.577	-3.225	7.997	1.00	0.00
ATOM	273	CD1	LEU A	A 23	141.779	-4.108	8.943	1.00	0.00
ATOM	274	CD2	LEU A	A 23	143.893	-3.892	7.624	1.00	0.00
ATOM	275	H	LEU A	A 23	140.877	-0.622	7.552	1.00	0.00
ATOM	276	HA	LEU A	A 23	143.148	-1.472	5.970	1.00	0.00
ATOM	277	1HB	LEU A	A 23	140.716	-2.923	7.003	1.00	0.00
ATOM	278	2HB	LEU A	A 23	141.945	-3.691	6.017	1.00	0.00
ATOM	279	HG	LEU A	A 23	142.803	-2.303	8.512	1.00	0.00
ATOM	280	1HD1	LEU A	A 23	141.062	-4.686	8.378	1.00	0.00
ATOM	281	2HD1	LEU A	A 23	141.259	-3.490	9.659	1.00	0.00
MOTA	282	3HD1	LEU A	A 23	142.449	-4.777	9.464	1.00	0.00
ATOM	283	1HD2	LEU A	A 23	143.706	-4.908	7.309	1.00	0.00
MOTA	284	2HD2	LEU A	A 23	144.550	-3.897	8.481	1.00	0.00
ATOM	285	3HD2	LEU A	A 23	144.359	-3.345	6.818	1.00	0.00
MOTA	286	N	ALA A	A 24	142.222	-1.725	3.670	1.00	0.00
ATOM	287	CA	ALA A	A 24	141.724	-1.686	2.301	1.00	0.00
ATOM	288	С	ALA A	A 24	142.324	-2.812	1.466	1.00	0.00
ATOM	289	0	ALA A	A 24	143.420	-3.294	1.751	1.00	0.00
ATOM	290	CB	ALA A	A 24	142.028	-0.337	1.667	1.00	0.00
ATOM	291	H	ALA A	A 24	143.168	-1.928	3.829	1.00	0.00
ATOM	292	HA	ALA A	A 24	140.651	-1.808	2.334	1.00	0.00

ATOM 293	1HB	ALA A	24 141.196	0.333	1.830 1.00 0.00
ATOM 294	2HB	ALA A	24 142.184	-0.464	0.606 1.00 0.00
ATOM 295	ЗНВ	ALA A	24 142.919	0.079	2.115 1.00 0.00
ATOM 296	N	GLU A	25 141.598	-3.227	0.433 1.00 0.00
ATOM 297	CA	GLU A	25 142.059	-4.299	-0.445 1.00 0.00
ATOM 298	С	GLU A	25 142.225	-3.797	-1.876 1.00 0.00
ATOM 299	0	GLU A	25 141.447	-2.968	-2.348 1.00 0.00
ATOM 300	СВ	GLU A	25 141.075	-5.470	-0.414 1.00 0.00
ATOM 301	CG	GLU A	25 141.514	-6.654	-1.260 1.00 0.00
ATOM 302	CD	GLU A	25 140.767	-6.737	-2.578 1.00 0.00
ATOM 303	OE1	GLU A	25 140.490	-5.674	-3.170 1.00 0.00
ATOM 304	0E2	GLU A	25 140.461	-7.865	-3.017 1.00 0.00
ATOM 305	H	GLU A	25 140.732	-2.805	0.256 1.00 0.00
ATOM 306	HA	GLU A	25 143.017	-4.636	-0.081 1.00 0.00
ATOM 307	1HB	GLU A	25 140.965	-5.805	0.607 1.00 0.00
ATOM 308	2HB	GLU A	25 140.117	-5.130	-0.778 1.00 0.00
ATOM 309	1HG	GLU A	25 142.569	-6.561	-1.469 1.00 0.00
ATOM 310	2HG	GLU A	25 141.335	-7.563	-0.704 1.00 0.00
ATOM 311	N	VAL A	26 143.244	-4.305	-2.560 1.00 0.00
ATOM 312	CA	VAL A	26 143.513	-3.909	-3.937 1.00 0.00
ATOM 313	С	VAL A	26 142.949	-4.926	-4.922 1.00 0.00
ATOM 314	0	VAL A	26 142.719	-6.084	-4.571 1.00 0.00
ATOM 315	CB	VAL A	26 145.024	-3.751	-4.191 1.00 0.00
ATOM 316	CG1	VAL A	26 145.275	-3.136	-5.559 1.00 0.00
ATOM 317	CG2	VAL A	26 145.665	-2.911	-3.097 1.00 0.00
ATOM 318	H	VAL A	26 143.830	-4.962	-2.129 1.00 0.00
ATOM 319	HA	VAL A	26 143.039	-2.953	-4.109 1.00 0.00
ATOM 320	НВ	VAL A	26 145.477	7 -4.731	-4.173 1.00 0.00
ATOM 321	1H(G1 VAL A	26 146.222	2 -2.616	-5.553 1.00 0.00

ATOM 322	2HG1	VAL A	26 144.484	-2.439	-5.792 1.00 0.00
ATOM 323	3HG1	VAL A	26 145.299	-3.917	-6.305 1.00 0.00
ATOM 324	1HG2	VAL A	26 145.381	-1.876	-3.223 1.00 0.00
ATOM 325	2HG2	VAL A	26 146.740	-2.998	-3.157 1.00 0.00
ATOM 326	3HG2	VAL A	26 145.330	-3.260	-2.131 1.00 0.00
ATOM 327	N	LYS A	27 142.727	-4.487	-6.157 1.00 0.00
ATOM 328	CA	LYS A	27 142.188	-5.360	-7.194 1.00 0.00
ATOM 329	С	LYS A	27 143.310	-5.966	-8.031 1.00 0.00
ATOM 330	0	LYS A	27 143.259	-5.951	-9.262 1.00 0.00
ATOM 331	CB	LYS A	27 141.223	-4.583	-8.092 1.00 0.00
ATOM 332	CG	LYS A	27 139.924	-4.202	-7.403 1.00 0.00
ATOM 333	CD	LYS A	27 139.048	-5.419	-7.154 1.00 0.00
ATOM 334	CE ·	LYS A	27 137.646	-5.018	-6.724 1.00 0.00
ATOM 335	NZ	LYS A	27 137.102	-5.932	-5.682 1.00 0.00
ATOM 336	Н	LYS A	27 142.930	-3.554	-6.376 1.00 0.00
ATOM 337	HA	LYS A	27 141.648	-6.158	-6.706 1.00 0.00
ATOM 338	1HB	LYS A	27 141.710	-3.677	-8.424 1.00 0.00
ATOM 339	2HB	LYS A	27 140.985	-5.190	-8.954 1.00 0.00
ATOM 340	1HG	LYS A	27 140.152	-3.735	-6.457 1.00 0.00
ATOM 341	2HG	LYS A	27 139.387	-3.504	-8.030 1.00 0.00
ATOM 342	1HD	LYS A	27 138.983	-5.995	-8.065 1.00 0.00
ATOM 343	2HD	LYS A	27 139.496	-6.019	-6.376 1.00 0.00
ATOM 344	1HE	LYS A	27 137.678	-4.014	-6.327 1.00 0.00
ATOM 345	2HE	LYS A	27 136.998	-5.043	-7.587 1.00 0.00
ATOM 346	1HZ	LYS A	27 136.733	-6.799	-6.124 1.00 0.00
ATOM 347	2HZ	LYS A	27 136.331	-5.466	-5.163 1.00 0.00
ATOM 348	3HZ	LYS A	27 137.851	-6.192	-5.007 1.00 0.00
ATOM 349	N	GLU A	28 144.323	-6.501	-7.357 1.00 0.00
ATOM 350	CA	GLU A	28 145.457	-7.112	-8.038 1.00 0.00

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28 145.269
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ATOM 351
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ATOM 352
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ATOM 354
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ATOM 355
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ATOM 356
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ATOM 357
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                       28 144.307
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ATOM 358
           Η
                GLU A
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ATOM 359
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                GLU A
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           2HB
                GLU A
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ATOM 361
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                GLU A
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ATOM 362
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ATOM 363
                GLU A
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ATOM 365
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            Η
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 ATOM 379
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                 PRO A
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ATOM 380
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ATOM 381
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ATOM 384
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ATOM 385
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ATOM 388
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ATOM 389
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           1HD
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ATOM 390
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ATOM 391
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                 PRO A
                        30 148.927 -10.721
ATOM 392
                 PRO A
                        31 145.373 -11.959
                                             -4.095 1.00 0.00
           N
                 PRO A
                        31 144.428 -11.455
                                             -3.094 1.00 0.00
ATOM 393
           CA
ATOM 394
            C
                 PRO A
                        31 145.065 -11.310
                                             -1.717 1.00 0.00
                                             -0.869 1.00 0.00
ATOM 395
            0
                 PRO A
                        31 144.943 -12.193
                                             -3.065 1.00 0.00
                 PRO A
                        31 143.331 -12.523
ATOM 396
            CB
                                             -3.541 1.00 0.00
ATOM 397
            CG
                 PRO A
                        31 143.999 -13.765
                                             -4.543 1.00 0.00
ATOM 398
            CD
                 PRO A
                        31 145.028 -13.322
                        31 144.003 -10.507
                                             -3.393 1.00 0.00
 ATOM 399
                 PRO A
            HA
            1HB
                 PRO A
                        31 142.960 -12.634
                                             -2.057 1.00 0.00
 ATOM 400
                 PRO A
                         31 142.524 -12.233
                                              -3.721 1.00 0.00
 ATOM 401
            2HB
                         31 144.474 -14.268
 ATOM 402
                                              -2.712 1.00 0.00
            1HG
                 PRO A
            2HG
                 PRO A
                         31 143.276 -14.415
                                              -4.011 1.00 0.00
 ATOM 403
                         31 145.892 -13.969
                                              -4.508 1.00 0.00
 ATOM 404
            1HD
                 PRO A
                                              -5.536 1.00 0.00
 ATOM 405
            2HD
                 PRO A
                         31 144.607 -13.306
                         32 145.746 -10.189
 ATOM 406
                                              -1.501 1.00 0.00
                 PHE A
            N
 ATOM 407
            CA
                 PHE A
                         32 146.404 -9.928
                                              -0.226 \ 1.00 \ 0.00
            C
 ATOM 408
                 PHE A
                         32 145.573 -8.975
                                               0.628 1.00 0.00
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ATOM 409	0	PHE A	32 144.568	-8.432	0.172 1.00 0.00
ATOM 410	CB	PHE A	32 147.798	-9.342	-0.457 1.00 0.00
ATOM 411	CG	PHE A	32 147.825	-8.245	-1.484 1.00 0.00
ATOM 412	CD1	PHE A	32 147.160	-7.051	-1.259 1.00 0.00
ATOM 413	CD2	PHE A	32 148.516	-8.409	-2.674 1.00 0.00
ATOM 414	CE1	PHE A	32 147.184	-6.040	-2.201 1.00 0.00
ATOM 415	CE2	PHE A	32 148.543	-7.402	-3.620 1.00 0.00
ATOM 416	CZ	PHE A	32 147.875	-6.216	-3.383 1.00 0.00
ATOM 417	Н	PHE A	32 145.807	-9.522	-2.217 1.00 0.00
ATOM 418	HA	PHE A	32 146.501	-10.868	0.295 1.00 0.00
ATOM 419	1HB	PHE A	32 148.168	-8.935	0.471 1.00 0.00
ATOM 420	2HB	PHE A	32 148.460	-10.127	-0.791 1.00 0.00
ATOM 421	HD1	PHE A	32 146.618	-6.912	-0.335 1.00 0.00
ATOM 422	HD2	PHE A	32 149.038	-9.336	-2.860 1.00 0.00
ATOM 423	HE1	PHE A	32 146.660	-5.114	-2.014 1.00 0.00
ATOM 424	HE2	PHE A	32 149.085	-7.543	-4.543 1.00 0.00
ATOM 425	HZ	PHE A	32 147.895	-5.428	-4.122 1.00 0.00
ATOM 426	N	TYR A	33 146.003	-8.777	1.870 1.00 0.00
ATOM 427	CA	TYR A	33 145.297	-7.889	2.789 1.00 0.00
ATOM 428	С	TYR A	33 146.273	-6.965	3.508 1.00 0.00
ATOM 429	0	TYR A	33 147.259	-7.417	4.092 1.00 0.00
ATOM 430	СВ	TYR A	33 144.502	-8.706	3.809 1.00 0.00
ATOM 431	CG	TYR A	33 143.206	-9.261	3.263 1.00 0.00
ATOM 432	CD1	TYR A	33 142.351	-8.466	2.509 1.00 0.00
ATOM 433	CD2	TYR A	33 142.838	-10.579	3.501 1.00 0.00
ATOM 434	CE1	TYR A	33 141.165	-8.970	2.008 1.00 0.00
ATOM 435	CE2	TYR A	33 141.655	-11.090	3.002 1.00 0.00
ATOM 436	CZ	TYR A	33 140.822	-10.282	2.257 1.00 0.00
ATOM 437	OH	TYR A	33 139.643	-10.787	1.759 1.00 0.00

ATOM 438	H	TYR A	33 146.811	-9.238	2.178 1.00 0.00
ATOM 439	HA	TYR A	33 144.613	-7.289	2.208 1.00 0.00
ATOM 440	1HB	TYR A	33 145.104	-9.537	4.143 1.00 0.00
ATOM 441	2HB	TYR A	33 144.264	-8.077	4.655 1.00 0.00
ATOM 442	HD1	TYR A	33 142.623	-7.439	2.316 1.00 0.00
ATOM 443	HD2	TYR A	33 143.492 -	-11.209	4.086 1.00 0.00
ATOM 444	HE1	TYR A	33 140.515	-8.336	1.424 1.00 0.00
ATOM 445	HE2	TYR A	33 141.386 -	-12.117	3.198 1.00 0.00
ATOM 446	НН	TYR A	33 139.504 -	-10.457	0.869 1.00 0.00
ATOM 447	N	GLY A	34 145.993	-5.666	3.463 1.00 0.00
ATOM 448	CA	GLY A	34 146.856	-4.698	4.115 1.00 0.00
ATOM 449	С	GLY A	34 146.086	-3.512	4.663 1.00 0.00
ATOM 450	0	GLY A	34 144.877	-3.403	4.464 1.00 0.00
ATOM 451	Н	GLY A	34 145.194	-5.363	2.983 1.00 0.00
ATOM 452	1HA	GLY A	34 147.374	-5.184	4.928 1.00 0.00
ATOM 453	2HA	GLY A	34 147.583	-4.342	3.400 1.00 0.00
ATOM 454	N	VAL A	35 146.789	-2.622	5.357 1.00 0.00
ATOM 455	CA	VAL A	35 146.165	-1.439	5.937 1.00 0.00
ATOM 456	С	VAL A	35 146.791	-0.162	5.382 1.00 0.00
ATOM 457	0	VAL A	35 147.999	-0.097	5.159 1.00 0.00
ATOM 458	CB	VAL A	35 146.287	-1.437	7.474 1.00 0.00
ATOM 459	CG1	VAL A	35 147.746	-1.405	7.899 1.00 0.00
ATOM 460	CG2	VAL A	35 145.523	-0.263	8.071 1.00 0.00
ATOM 461	Н	VAL A	35 147.751	-2.766	5.482 1.00 0.00
ATOM 462	HA	VAL A	35 145.116	-1.455	5.679 1.00 0.00
ATOM 463	HB	VAL A	35 145.847	-2.350	7.849 1.00 0.00
ATOM 464	1H0	G1 VAL A	35 148.023	-0.395	8.165 1.00 0.00
ATOM 465	2H0	G1 VAL A	35 148.367	-1.745	7.084 1.00 0.00
ATOM 466	3H(G1 VAL A	35 147.888	-2.052	8.752 1.00 0.00

ATOM 467	1HG2 VAL A	35 144.502	-0.284	7.721 1.00 0.00
ATOM 468	2HG2 VAL A	35 145.989	0.662	7.765 1.00 0.00
ATOM 469	3HG2 VAL A	35 145.537	-0.335	9.148 1.00 0.00
ATOM 470	N ILE A	36 145.958	0.852	5.164 1.00 0.00
ATOM 471	CA ILE A	36 146.430	2.126	4.637 1.00 0.00
ATOM 472	C ILE A	36 147.393	2.798	5.611 1.00 0.00
ATOM 473	O ILE A	36 147.154	2.821	6.819 1.00 0.00
ATOM 474	CB ILE A	36 145.259	3.085	4.344 1.00 0.00
ATOM 475	CG1 ILE A	36 144.203	2.391	3.480 1.00 0.00
ATOM 476	CG2 ILE A	36 145.765	4.346	3.658 1.00 0.00
ATOM 477	CD1 ILE A	36 143.021	3.272	3.144 1.00 0.00
ATOM 478	H ILE A	36 145.006	0.739	5.363 1.00 0.00
ATOM 479	HA ILE A	36 146.950	1.932	3.710 1.00 0.00
ATOM 480	HB ILE A	36 144.813	3.371	5.284 1.00 0.00
ATOM 481	1HG1 ILE A	36 144.657	2.077	2.552 1.00 0.00
ATOM 482	2HG1 ILE A	36 143.832	1.522	4.005 1.00 0.00
ATOM 483	1HG2 ILE A	36 144.985	5.093	3.655 1.00 0.00
ATOM 484	2HG2 ILE A	36 146.045	4.115	2.640 1.00 0.00
ATOM 485	3HG2 ILE A	36 146.625	4.726	4.190 1.00 0.00
ATOM 486	1HD1 ILE A	36 143.302	4.309	3.253 1.00 0.00
ATOM 487	2HD1 ILE A	36 142.203	3.047	3.812 1.00 0.00
ATOM 488	3HD1 ILE A	36 142.713	3.089	2.125 1.00 0.00
ATOM 489	N ARG A	37 148.482	3.342	5.078 1.00 0.00
ATOM 490	CA ARG A	37 149.482	4.013	5.901 1.00 0.00
ATOM 491	C ARG A	37 149.654	5.467	5.474 1.00 0.00
ATOM 492	O ARG A	37 149.380	6.387	6.245 1.00 0.00
ATOM 493	CB ARG A	37 150.821	3.279	5.811 1.00 0.00
ATOM 494	CG ARG A	37 150.720	1.790	6.099 1.00 0.00
ATOM 495	CD ARG A	37 150.093	1.526	7.458 1.00 0.00

ATOM	496	NE	ARG .	A	37	150.689	2.353	8.506	1.00	0.00
ATOM	497	CZ	ARG	A	37	150. 129	2.558	9.696	1.00	0.00
ATOM	498	NH1	ARG	A	37	148.963	1.999	9.993	1.00	0.00
ATOM	499	NH2	ARG	A	37	150.737	3.323	10.591	1.00	0.00
ATOM	500	H	ARG	A	37	148.617	3.291	4.109	1.00	0.00
ATOM	501	HA	ARG	A	37	149.138	3.991	6.924	1.00	0.00
ATOM	502	1HB	ARG	A	37	151.221	3.405	4.816	1.00	0.00
ATOM	503	2HB	ARG	A	37	151.507	3.716	6.522	1.00	0.00
ATOM	504	1HG	ARG	A	37	150.112	1.327	5.337	1.00	0.00
ATOM	505	2HG	ARG	A	37	151.712	1.362	6.079	1.00	0.00
MOTA	506	1HD	ARG	A	37	149.036	1.741	7.401	1.00	0.00
ATOM	507	2HD	ARG	A	37	150.235	0.486	7.710	1.00	0.00
ATOM	508	HE	ARG	A	37	151.550	2.778	8.311	1.00	0.00
ATOM	509	1HH1	ARG	A	37	148.498	1.422	9.322	1.00	0.00
ATOM	510	2HH1	ARG	A	37	148.547	2.158	10.889	1.00	0.00
ATOM	511	1HH2	ARG	A	37	151.617	3.746	10.372	1.00	0.00
ATOM	512	2HH2	ARG	A	37	150.318	3.477	11.485	1.00	0.00
ATOM	513	N	TRP	A	38	150.112	5.667	4.242	1.00	0.00
ATOM	514	CA	TRP	A	38	150.321	7.011	3.714	1.00	0.00
ATOM	515	C	TRP	A	38	149.551	7.213	2.412	1.00	0.00
ATOM	516	0	TRP	A	38	149.601	6.374	1.511	1.00	0.00
ATOM	517	CB	TRP	A	38	151.814	7.269	3.486	1.00	0.00
ATOM	518	CG	TRP	A	38	152.095	8.525	2.714	1.00	0.00
ATOM	519	CD1	TRP	A	38	152.313	9.772	3.226	1.00	0.00
ATOM	520	CD2	TRP	A	38	152.181	8.655	1.290	1.00	0.00
ATOM	521	NE1	TRP	A	38	152.531	10.669	2.207	1.00	0.00
ATOM	522	CE2	TRP	A	38	152.455	5 10.006	1.009	1.00	0.00
ATOM	523	CE3	TRP	A	38	152.055	7.758	0.225	1.00	0.00
ATOM	524	CZ2	TRP	A	38	152.603	3 10.481	-0.292	1.00	0.00

ATOM 525	CZ3	TRP A	38 152.202	8.230	-1.066 1.00 0.00
ATOM 526	CH2	TRP A	38 152.474	9.581	-1.315 1.00 0.00
ATOM 527	H	TRP A	38 150.313	4.895	3.674 1.00 0.00
ATOM 528	HA	TRP A	38 149.952	7.715	4.446 1.00 0.00
ATOM 529	1HB	TRP A	38 152.309	7.350	4.443 1.00 0.00
ATOM 530	2HB	TRP A	38 152.236	6.439	2.938 1.00 0.00
ATOM 531	HD1	TRP A	38 152.312	10.006	4.280 1.00 0.00
ATOM 532	HE1	TRP A	38 152.711	11.625	2.319 1.00 0.00
ATOM 533	HE3	TRP A	38 151.845	6.713	0.397 1.00 0.00
ATOM 534	HZ2	TRP A	38 152.809	11.521	-0.501 1.00 0.00
ATOM 535	HZ3	TRP A	38 152.108	7.552	-1.900 1.00 0.00
ATOM 536	HH2	TRP A	38 152.582	9.906	-2.340 1.00 0.00
ATOM 537	N	ILE A	39 148.850	8.337	2.318 1.00 0.00
ATOM 538	CA	ILE A	39 148.078	8.664	1.126 1.00 0.00
ATOM 539	С	ILE A	39 148.492	10.024	0.575 1.00 0.00
ATOM 540	0	ILE A	39 148.159	11.062	1.146 1.00 0.00
ATOM 541	CB	ILE A	39 146.566	8.679	1.420 1.00 0.00
ATOM 542	CG1	ILE A	39 146.151	7.396	2.143 1.00 0.00
ATOM 543	CG2	ILE A	39 145.777	8.844	0.129 1.00 0.00
ATOM 544	CD1	ILE A	39 144.691	7.371	2.539 1.00 0.00
ATOM 545	H	ILE A	39 148.859	8.968	3.067 1.00 0.00
ATOM 546	HA	ILE A	39 148.275	7.907	0.380 1.00 0.00
ATOM 547	HB	ILE A	39 146.353	9.526	2.053 1.00 0.00
ATOM 548	1HG	1 ILE A	39 146.334	6.551	1.496 1.00 0.00
ATOM 549	2HG	1 ILE A	39 146.742	7.290	3.041 1.00 0.00
ATOM 550	1HG	2 ILE A	39 144.765	8.499	0.279 1.00 0.00
ATOM 551	2HG	2 ILE A	39 146.242	8.264	-0.654 1.00 0.00
ATOM 552	3HG	2 ILE A	39 145.764	9.886	-0.154 1.00 0.00
ATOM 553	1HD	1 ILE A	39 144.182	8.211	2.090 1.00 0.00

ATOM 554	2HD1	ILE A	39 144.608	7.431	3.614 1.00 0.00
ATOM 555	3HD1	ILE A	39 144.241	6.451	2.194 1.00 0.00
ATOM 556	N	GLY A	40 149.226	10.012	-0.532 1.00 0.00
ATOM 557	CA	GLY A	40 149.678	11.253	-1.131 1.00 0.00
ATOM 558	С	GLY A	40 150.185	11.072	-2.546 1.00 0.00
ATOM 559	0	GLY A	40 150.020	10.007	-3.142 1.00 0.00
ATOM 560	H	GLY A	40 149.467	9.155	-0.943 1.00 0.00
ATOM 561	1HA	GLY A	40 148.858	11.955	-1.141 1.00 0.00
ATOM 562	2HA	GLY A	40 150.474	11.659	-0.526 1.00 0.00
ATOM 563	N	GLN A	41 150.799	12.118	-3.087 1.00 0.00
ATOM 564	CA	GLN A	41 151.332	12.082	-4.441 1.00 0.00
ATOM 565	C	GLN A	41 152.794	12.528	-4.460 1.00 0.00
ATOM 566	0	GLN A	41 153.100	13.680	-4.154 1.00 0.00
ATOM 567	CB	GLN A	41 150.498	12.981	-5.353 1.00 0.00
ATOM 568	CG	GLN A	41 149.001	12.756	-5.223 1.00 0.00
ATOM 569	CD	GLN A	41 148.213	14.050	-5.269 1.00 0.00
ATOM 570	OE1	GLN A	41 148.200	14.818	-4.307 1.00 0.00
ATOM 571	NE2	GLN A	41 147.549	14.296	-6.391 1.00 0.00
ATOM 572	Н	GLN A	41 150.896	12.939	-2.561 1.00 0.00
ATOM 573	HA	GLN A	41 151.268	11.065	-4.798 1.00 0.00
ATOM 574	1HB	GLN A	41 150.707	14.011	-5.111 1.00 0.00
ATOM 575	2HB	GLN A	41 150.782	12.797	-6.377 1.00 0.00
ATOM 576	1HG	GLN A	41 148.673	12.124	-6.034 1.00 0.00
ATOM 577	2HG	GLN A	41 148.803	12.265	-4.282 1.00 0.00
ATOM 578	1HE2	GLN A	41 147.606	13.638	-7.115 1.00 0.00
ATOM 579	2HE2	GLN A	41 147.032	15.126	-6.451 1.00 0.00
ATOM 580	N	PRO A	42 153.720	11.620	-4.817 1.00 0.00
ATOM 581	CA	PRO A	42 155.153	11.933	-4.868 1.00 0.00
ATOM 582	С	PRO A	42 155.457	13.100	-5.803 1.00 0.00

ATOM 58	3 0	PRO A	42 154.658	13.428	-6.681 1.00 0.00
ATOM 58	34 CB	PRO A	42 155.789	10.645	-5.399 1.00 0.00
ATOM 58	35 CG	PRO A	42 154.802	9.575	-5.083 1.00 0.00
ATOM 58	36 CD	PRO A	42 153.453	10.221	-5.197 1.00 0.00
ATOM 58	37 HA	PRO A	42 155.544	12.152	-3.885 1.00 0.00
ATOM 58	38 1HB	PRO A	42 155.950	10.733	-6.465 1.00 0.00
ATOM 58	39 2HB	PRO A	42 156.731	10.472	-4.900 1.00 0.00
ATOM 59	90 1HG	PRO A	42 154.894	8.767	-5.794 1.00 0.00
ATOM 59	91 2HG	PRO A	42 154.961	9.213	-4.078 1.00 0.00
ATOM 59	92 1HD	PRO A	42 153.088	10.159	-6.213 1.00 0.00
ATOM 59	93 2HD	PRO A	42 152.754	9.763	-4.513 1.00 0.00
ATOM 59	94 N	PRO A	43 156.621	13.746	-5.625 1.00 0.00
ATOM 59	95 CA.	PRO A	43 157.028	14.881	-6.457 1.00 0.00
ATOM 59	96 C	PRO A	43 157.418	14.454	-7.866 1.00 0.00
ATOM 59	97 0	PRO A	43 158.590	14.200	-8.146 1.00 0.00
ATOM 59	98 CB	PRO A	43 158.241	15.445	-5.719 1.00 0.00
ATOM 5	99 CG	PRO A	43 158.803	14.285	-4.973 1.00 0.00
ATOM 6	00 CD	PRO A	43 157.630	13.420	-4.600 1.00 0.00
ATOM 6	01 HA	PRO A	43 156.254	15.632	-6.510 1.00 0.00
ATOM 6	02 1HB	PRO A	43 158.948	15.836	-6.435 1.00 0.00
ATOM 6	03 2HB	PRO A	43 157.926	16.230	-5.048 1.00 0.00
ATOM 6	04 1HG	PRO A	43 159.487	13.738	-5.607 1.00 0.00
ATOM 6	05 2HG	PRO A	43 159.311	14.631	-4.085 1.00 0.00
ATOM 6	06 1HD	PRO A	43 157.903	12.376	-4.647 1.00 0.00
ATOM 6	07 2HD	PRO A	43 157.273	13.673	-3.614 1.00 0.00
ATOM 6	08 N	GLY A	44 156.432	14.379	-8.752 1.00 0.00
ATOM 6	09 CA	GLY A	44 156.696	13.984	-10.122 1.00 0.00
ATOM 6	10 C	GLY A	44 155.463	13.450	-10.820 1.00 0.00
ATOM 6	0	GLY A	44 155.131	13.883	-11.924 1.00 0.00

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-8.473 1.00 0.00
ATOM 612
           H
                GLY A
                       44 155.517
                                    14.595
                                    14.839 -10.667 1.00 0.00
                GLY A
                       44 157.062
ATOM 613
           1HA
                                    13.216 -10.121 1.00 0.00
ATOM 614
           2HA
                GLY A
                       44 157.457
                                    12.507 -10.178 1.00 0.00
ATOM 615
           N
                LEU A
                       45 154.782
                                    11.916 -10.749 1.00 0.00
                       45 153.577
ATOM 616
           CA
                LEU A
                                    12.121
                                            -9.826 1.00 0.00
ATOM 617
           C
                LEU A
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                                    11.557
                                            -8.733 1.00 0.00
                LEU A
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ATOM 618
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                LEU A
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ATOM 619
           CB
                                            -9.841 1.00 0.00
                                     9.647
           CG
                 LEU A
                        45 154.407
ATOM 620
                                     8.159
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                LEU A
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ATOM 621
           CD1
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                                     9.898
           CD2
                LEU A
                        45 155.907
ATOM 622
                                            -9.298 1.00 0.00
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ATOM 623
            H
                 LEU A
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                 LEU A
                        45 153.380
ATOM 624
            HA
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                        45 152.830
ATOM 625
            1HB
                 LEU A
                                     10.314 -11.865 1.00 0.00
                 LEU A
                        45 154.434
            2HB
ATOM 626
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                 LEU A
                        45 153.966
ATOM 627
            HG
                                      7.624 -10.154 1.00 0.00
            1HD1 LEU A
                        45 155.036
ATOM 628
                                      7.995 -10.800 1.00 0.00
                        45 153.438
 ATOM 629
            2HD1 LEU A
                                      7.798 -9.062 1.00 0.00
                        45 153.663
 ATOM 630
            3HD1 LEU A
            1HD2 LEU A
                                      8.959
                                            -9.648 1.00 0.00
 ATOM 631
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                                     10.542 -8.932 1.00 0.00
 ATOM 632
            2HD2 LEU A
                         45 156.125
                                     10.374 -10.684 1.00 0.00
 ATOM 633
            3HD2 LEU A
                         45 156.236
                                     12.927 -10.269 1.00 0.00
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 ATOM 634
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                 ASN A
                         46 150.235
                                     13.193 -9.470 1.00 0.00
            CA
                 ASN A
 ATOM 635
                                     11.976 -9.459 1.00 0.00
            C
                 ASN A
                         46 149.317
 ATOM 636
            0
                 ASN A
                         46 148.674
                                     11.660 -10.460 1.00 0.00
 ATOM 637
 ATOM 638
                  ASN A
                         46 149.488
                                     14.408 -10.023 1.00 0.00
            CB
                                             -9.078 1.00 0.00
 ATOM 639
                  ASN A
                         46 148.414
                                     14.909
             CG
                         46 147.337
                                      14.320
                                             -8.976 1.00 0.00
 ATOM 640
             OD1
                  ASN A
```

ATOM 641	ND2	ASN A	46 148.701	16.002	-8.381 1.00 0.00
ATOM 642	H	ASN A	46 151.517	13.350	-11.148 1.00 0.00
ATOM 643	HA	ASN A	46 150.552	13.403	-8.459 1.00 0.00
ATOM 644	1HB	ASN A	46 150.192	15.210	-10.193 1.00 0.00
ATOM 645	2HB	ASN A	46 149.022	14.140	-10.960 1.00 0.00
ATOM 646	1HD2	ASN A	46 149.578	16.418	-8.513 1.00 0.00
ATOM 647	2HD2	ASN A	46 148.024	16.347	-7.762 1.00 0.00
ATOM 648	N	GLU A	47 149.262	11.298	-8.318 1.00 0.00
ATOM 649	CA	GLU A	47 148.424	10.115	-8.169 1.00 0.00
ATOM 650	C	GLU A	47 148.293	9.726	-6.701 1.00 0.00
ATOM 651	0	GLU A	47 149.290	9.450	-6.033 1.00 0.00
ATOM 652	CB	GLU A	47 149.005	8.945	-8.967 1.00 0.00
ATOM 653	CG	GLU A	47 150.523	8.861	-8.914 1.00 0.00
ATOM 654	CD	GLU A	47 151.092	7.924	-9.962 1.00 0.00
ATOM 655	OE1	GLU A	47 151.464	6.787	-9.603 1.00 0.00
ATOM 656	0E2	GLU A	47 151.164	8.328	-11.142 1.00 0.00
ATOM 657	Н	GLU A	47 149.799	11.601	-7.558 1.00 0.00
ATOM 658	HA	GLU A	47 147.445	10.351	-8.555 1.00 0.00
ATOM 659	1HB	GLU A	47 148.602	8.022	-8.577 1.00 0.00
ATOM 660	2HB	GLU A	47 148.709	9.048	-10.001 1.00 0.00
ATOM 661	1HG	GLU A	47 150.931	9.847	-9.076 1.00 0.00
ATOM 662	2HG	GLU A	47 150.820	8.507	-7.938 1.00 0.00
ATOM 663	N	VAL A	48 147.064	9.696	-6.203 1.00 0.00
ATOM 664	CA	VAL A	48 146.817	9.330	-4.815 1.00 0.00
ATOM 665	С	VAL A	48 147.192	7.874	-4.570 1.00 0.00
ATOM 666	0	VAL A	48 146.430	6.963	-4.895 1.00 0.00
ATOM 667	CB	VAL A	48 145.342	9.544	-4.426 1.00 0.00
ATOM 668	CG1	VAL A	48 145.152	9.357	-2.928 1.00 0.00
ATOM 669	CG2	VAL A	48 144.869	10.922	-4.863 1.00 0.00

ATOM (670	Н	VAL .	A	4 8	146.305	9.918	-6.782	1.00	0.00
ATOM (671	HA	VAL .	A	48	147.433	9.961	-4.188	1.00	0.00
ATOM (672	HB	VAL .	A	48	144.745	8.803	-4.936	1.00	0.00
ATOM	673	1HG1	VAL .	A	48	144.216	9.803	-2.627	1.00	0.00
ATOM	674	2HG1	VAL	A	48	145.964	9.833	-2.401	1.00	0.00
ATOM	675	3HG1	VAL	A	48	145.140	8.302	-2.696	1.00	0.00
ATOM	676	1HG2	VAL	A	48	145.632	11.653	-4.636	1.00	0.00
ATOM	677	2HG2	VAL	A	48	143.961	11.174	-4.337	1.00	0.00
ATOM	678	3HG2	VAL	A	48	144.681	10.918	-5.926	1.00	0.00
ATOM	679	N	LEU	A	49	148.373	7.660	-4.000	1.00	0.00
ATOM	680	CA	LEU	A	49	148.852	6.313	-3.717	1.00	0.00
ATOM	681	С	LEU	A	49	148.792	6.021	-2.223	1.00	0.00
ATOM	682	0	LEU	A	49	149.500	6.641	-1.431	1.00	0.00
ATOM	683	CB	LEU	A	49	150.283	6.140	-4.227	1.00	0.00
ATOM	684	CG	LEU	A	49	150.454	6.288	-5.740	1.00	0.00
ATOM	685	CD1	LEU	A	49	151.838	6.822	-6.071	1.00	0.00
ATOM	686	CD2	LEU	A	49	150.214	4.956	-6.434	1.00	0.00
ATOM	687	H	LEU	A	49	148.937	8.425	-3.765	1.00	0.00
ATOM	688	HA	LEU	A	49	148.208	5.617	-4.234	1.00	0.00
ATOM	689	1HB	LEU	A	49	150.907	6.878	-3.741	1.00	0.00
ATOM	690	2HB	LEU	A	49	150.629	5.158	-3.942	1.00	0.00
ATOM	691	HG	LEU	A	49	149.726	6.995	-6.111	1.00	0.00
ATOM	692	1HD1	LEU	A	49	151.800	7.900	-6.146	1.00	0.00
ATOM	693	2HD1	LEU	A	49	152.169	6.408	-7.012	1.00	0.00
MOTA	694	3HD1	LEU	A	49	152.530	6.540	-5.290	1.00	0.00
ATOM	695	1HD2	LEU	A	49	149.181	4.891	-6.742	1.00	0.00
ATOM	696	2HD2	LEU	A	49	150.438	4.149	-5.751	1.00	0.00
ATOM	697	3HD2	LEU	A	49	150.854	4.882	-7.301	1.00	0.00
ATOM	698	N	ALA	A	50	147.943	5.072	-1.846	1.00	0.00

ATOM (699	CA	ALA A	. 50	147.794	4.702	-0.446	1.00	0.00
ATOM '	700	С	ALA A	50	148.728	3.553	-0.081	1.00	0.00
ATOM	701	0	ALA A	50	148.587	2.440	-0.588	1.00	0.00
ATOM	702	CB	ALA A	50	146.350	4.325	-0.152	1.00	0.00
MOTA	703	H	ALA A	50	147.405	4.613	-2.524	1.00	0.00
ATOM	704	HA	ALA A	50	148.047	5.565	0.151	1.00	0.00
ATOM	705	1HB	ALA A	50	145.908	3.878	-1.029	1.00	0.00
ATOM	706	2HB	ALA A	50	145.795	5.211	0.119	1.00	0.00
ATOM	707	ЗНВ	ALA A	50	146.321	3.620	0.666	1.00	0.00
ATOM	708	N	GLY A	51	149.682	3.830	0.801	1.00	0.00
ATOM	709	CA	GLY A	51	150.625	2.809	1.219	1.00	0.00
ATOM	710	C	GLY A	51	149.976	1.735	2.070	1.00	0.00
ATOM	711	0	GLY A	A 51	149.657	1.965	3.236	1.00	0.00
ATOM	712	H	GLY A	A 51	149.746	4.734	1.173	1.00	0.00
ATOM	713	1HA	GLY A	A 51	151.052	2.348	0.341	1.00	0.00
ATOM	714	2HA	GLY A	A 51	151.414	3.275	1.789	1.00	0.00
ATOM	715	N	LEU A	A 52	149.779	0.557	1.485	1.00	0.00
ATOM	716	CA	LEU A	A 52	149.164	-0.556	2.198	1.00	0.00
ATOM	717	C	LEU A	A 52	150.224	-1.465	2.808	1.00	0.00
ATOM	718	0	LEU A	A 52	151.150	-1.902	2.125	1.00	0.00
ATOM	719	CB	LEU A	A 52	148.265	-1.358	1.256	1.00	0.00
ATOM	720	CG	LEU .	A 52	147.001	-0.634	0.792	1.00	0.00
ATOM	721	CD1	LEU	A 52	146.360	-1.372	-0.373	1.00	0.00
ATOM	722	CD2	LEU .	A 52	146.016	-0.493	1.943	1.00	0.00
ATOM	723	H	LEU .	A 52	150.054	0.434	0.553	1.00	0.00
ATOM	724	HA	LEU .	A 52	148.559	-0.145	2.994	1.00	0.00
ATOM	725	1HB	LEU .	A 52	148.844	-1.626	0.383	1.00	0.00
ATOM	726	2HB	LEU .	A 52	147.968	-2.266	1.761	1.00	0.00
ATOM	727	HG	LEU .	A 52	2 147. 265	0.358	0.453	1.00	0.00

```
-0.055 1.00 0.00
                        52 146.068
                                    -2.362
           1HD1 LEU A
ATOM 728
                                    -1.448
                                             -1.184 1.00 0.00
                        52 147.069
ATOM 729
           2HD1 LEU A
                                             -0.707 1.00 0.00
           3HD1 LEU A
                                    -0.829
ATOM 730
                        52 145.488
                                              1.641 1.00 0.00
           1HD2 LEU A
                        52 145.198
                                     0.145
ATOM 731
                                              2.794 1.00 0.00
                                     -0.057
           2HD2 LEU A
                        52 146.517
ATOM 732
                                              2.211 1.00 0.00
                                     -1.467
           3HD2 LEU A
                        52 145.633
ATOM 733
                                              4.100 1.00 0.00
                                     -1.748
                        53 150.082
                 GLU A
ATOM 734
           N
                                              4.802 1.00 0.00
                        53 151.027
                                     -2.607
                 GLU A
ATOM 735
            CA
                                              4.856 1.00 0.00
                                     -4.044
                        53 150.520
ATOM 736
            C
                 GLU A
                                              5.532 1.00 0.00
                                     -4.340
ATOM 737
            0
                 GLU A
                        53 149.535
                                               6.221 1.00 0.00
                                     -2.085
ATOM 738
            CB
                 GLU A
                        53 151.266
                                               7.013 1.00 0.00
                         53 152.268
                                     -2.908
ATOM 739
            CG
                 GLU A
                                               8.448 1.00 0.00
                         53 151.835
                                     -3. 131
ATOM 740
            CD
                 GLU A
                                               8.744 1.00 0.00
                                     -4.216
 ATOM 741
            0E1
                 GLU A
                         53 151.291
                                               9.279 1.00 0.00
                                     -2.220
            0E2
                 GLU A
                         53 152.041
 ATOM 742
                                               4.591 1.00 0.00
                 GLU A
                         53 149.323
                                     -1.370
            Η
 ATOM 743
                                               4.259 1.00 0.00
                         53 151.961
                                      -2.587
            HA
                 GLU A
 ATOM 744
                                               6.162 1.00 0.00
                         53 151.633
                                      -1.071
 ATOM 745
             1HB
                  GLU A
                                               6.756 1.00 0.00
                         53 150.327
                                      -2.087
 ATOM 746
             2HB
                  GLU A
                         53 152.382
                                      -3.870
                                                6.534 1.00 0.00
             1HG
                  GLU A
 ATOM 747
                         53 153.217
                                      -2.393
                                                7.013 1.00 0.00
             2HG
                  GLU A
 ATOM 748
                         54 151.200
                                      -4.933
                                                4.139 1.00 0.00
                  LEU A
 ATOM 749
             N
                         54 150.817
                                      -6.340
                                                4.105 1.00 0.00
                  LEU A
 ATOM 750
             CA
                                                5.440 1.00 0.00
                          54 151.111
                                      -7.016
             C
                  LEU A
 ATOM 751
                                                6.049 1.00 0.00
                          54 152.156
                                      -6.782
                  LEU A
 ATOM 752
             0
                                                2.979 1.00 0.00
                                      -7.064
                  LEU A
                          54 151.558
  ATOM 753
             CB
                                                1.621 1.00 0.00
                                       -6.362
  ATOM 754
             CG
                  LEU A
                          54 151.517
                                                0.802 1.00 0.00
  ATOM 755
                  LEU A
                          54 152.750
                                       -6.710
             CD1
                                                0.867 1.00 0.00
                          54 150.250
                                       -6.737
             CD2
                  LEU A
  ATOM 756
```

ATOM 757	H	LEU A	54 151.976	-4.637	3.621 1.00 0.00
ATOM 758	HA	LEU A	54 149.755	-6.390	3.916 1.00 0.00
ATOM 759	1HB	LEU A	54 152.592	-7.178	3.272 1.00 0.00
ATOM 760	2HB	LEU A	54 151.123	-8.046	2.864 1.00 0.00
ATOM 761	HG	LEU A	54 151.510	-5.293	1.776 1.00 0.00
ATOM 762	1HD1	LEU A	54 152.593	-6.419	-0.226 1.00 0.00
ATOM 763	2HD1	LEU A	54 152.926	-7.775	0.853 1.00 0.00
ATOM 764	3HD1	LEU A	54 153.605	-6.184	1.199 1.00 0.00
ATOM 765	1HD2	LEU A	54 150.238	-7.803	0.691 1.00 0.00
ATOM 766	2HD2	LEU A	54 150.227	-6.216	-0.080 1.00 0.00
ATOM 767	3HD2	LEU A	54 149.386	-6.459	1.452 1.00 0.00
ATOM 768	N	GLU A	55 150.185	-7.857	5.890 1.00 0.00
ATOM 769	CA	GLU A	55 150.346	-8.568	7.153 1.00 0.00
ATOM 770	С	GLU A	55 151.400	-9.662	7.031 1.00 0.00
ATOM 771	0	GLU A	55 152.098	-9.977	7.995 1.00 0.00
ATOM 772	CB	GLU A	55 149.013	-9.174	7.594 1.00 0.00
ATOM 773	CG	GLU A	55 148.076	-8.172	8.249 1.00 0.00
ATOM 774	. CD	GLU A	55 146.632	-8.363	7.827 1.00 0.00
ATOM 775	0E1	GLU A	55 145.767	-8.503	8.717 1.00 0.00
ATOM 776	OE2	GLU A	55 146.366	-8.371	6.606 1.00 0.00
ATOM 777	7 H	GLU A	55 149.374	-8.002	5.359 1.00 0.00
ATOM 778	3 HA	GLU A	55 150.670	-7.853	7.895 1.00 0.00
ATOM 779	9 1HB	GLU A	55 148.515	-9.588	6.730 1.00 0.00
ATOM 780	O 2HB	GLU A	55 149.207	7 -9.967	8.301 1.00 0.00
ATOM 78	1 1HG	GLU A	55 148.139	-8.286	9.321 1.00 0.00
ATOM 78	2 2HG	GLU A	55 148.387	7 -7.174	7.974 1.00 0.00
ATOM 78	3 N	ASP A	56 151.51	1 -10.239	5.839 1.00 0.00
ATOM 78	4 CA	ASP A	56 152.48	1 -11.300	5.590 1.00 0.00
ATOM 78	5 C	ASP A	56 153.770	0 -10.732	5.004 1.00 0.00

ATYOM 7706	0	ASP A	56 153.744 -10.008	4 008 1 00 0 00
ATOM 786				
ATOM 787	CB	ASP A	56 151.893 -12.345	
ATOM 788	CG	ASP A	56 151.185 -13.464	5.381 1.00 0.00
ATOM 789	0D1	ASP A	56 151.383 -14.640	5.009 1.00 0.00
ATOM 790	OD2	ASP A	56 150.434 -13.164	6.333 1.00 0.00
ATOM 791	H	ASP A	56 150.927 -9.945	5.109 1.00 0.00
ATOM 792	HA	ASP A	56 152.707 -11.770	6.535 1.00 0.00
ATOM 793	1HB	ASP A	56 151.181 -11.867	3.985 1.00 0.00
ATOM 794	2HB	ASP A	56 152.688 -12.775	4.051 1.00 0.00
ATOM 795	N	GLU A	57 154.895 -11.065	5.626 1.00 0.00
ATOM 796	CA	GLU A	57 156.194 -10.588	5.166 1.00 0.00
ATOM 797	С	GLU A	57 156.577 -11.245	3.845 1.00 0.00
ATOM 798	0	GLU A	57 157.029 -12.390	3.817 1.00 0.00
ATOM 799	CB	GLU A	57 157.267 -10.870	6.220 1.00 0.00
ATOM 800	CG	GLU A	57 157.447 -9.740	7.221 1.00 0.00
ATOM 801	CD	GLU A	57 158.872 -9.634	7.728 1.00 0.00
ATOM 802	OE1	GLU A	57 159.805 -9.697	6.900 1.00 0.00
ATOM 803	OE2	GLU A	57 159.056 -9.488	8.955 1.00 0.00
ATOM 804	Н	GLU A	57 154.851 -11.645	6.416 1.00 0.00
ATOM 805	HA	GLU A	57 156.121 -9.522	5.016 1.00 0.00
ATOM 806	1HB	GLU A	57 156.996 -11.764	6.763 1.00 0.00
ATOM 807	2HB	GLU A	57 158.211 -11.035	5.721 1.00 0.00
ATOM 808	1HG	GLU A	57 157.181 -8.809	6.746 1.00 0.00
ATOM 809	2HG	GLU A	57 156.793 -9.914	8.062 1.00 0.00
ATOM 810	N	CYS A	58 156.395 -10.513	2.750 1.00 0.00
ATOM 811	CA	CYS A	58 156.722 -11.025	1.425 1.00 0.00
ATOM 812	С	CYS A	58 158.004 -10.389	0.898 1.00 0.00
ATOM 813	0	CYS A	58 158.094 -9.169	0.762 1.00 0.00
ATOM 814	CB	CYS A	58 155.570 -10.760	0.454 1.00 0.00

ATOM 815	SG	CYS A	58 154.347 -12.089	0.379 1.00 0.00
ATOM 816	H	CYS A	58 156.032 -9.607	2.837 1.00 0.00
ATOM 817	HA	CYS A	58 156.872 -12.091	1.509 1.00 0.00
ATOM 818	1HB	CYS A	58 155.057 -9.858	0.754 1.00 0.00
ATOM 819	2HB	CYS A	58 155.972 -10.625	-0.540 1.00 0.00
ATOM 820	HG	CYS A	58 154.819 -12.920	0.284 1.00 0.00
ATOM 821	N	ALA A	59 158.995 -11.225	0.602 1.00 0.00
ATOM 822	CA	ALA A	59 160.272 -10.744	0.090 1.00 0.00
ATOM 823	С	ALA A	59 160.092 -10.017	-1.238 1.00 0.00
ATOM 824	0	ALA A	59 159.556 -10.575	-2.195 1.00 0.00
ATOM 825	CB	ALA A	59 161.246 -11.902	-0.069 1.00 0.00
ATOM 826	H	ALA A	59 158.864 -12.187	0.732 1.00 0.00
ATOM 827	HA	ALA A	59 160.683 -10.055	0.813 1.00 0.00
ATOM 828	1HB	ALA A	59 161.919 -11.697	-0.889 1.00 0.00
ATOM 829	2HB	ALA A	59 160.697 -12.809	-0.272 1.00 0.00
ATOM 830	ЗНВ	ALA A	59 161.814 -12.021	0.841 1.00 0.00
ATOM 831	N	GLY A	60 160.541 -8.767	-1.288 1.00 0.00
ATOM 832	CA	GLY A	60 160.420 -7.984	-2.504 1.00 0.00
ATOM 833	С	GLY A	60 159.945 -6.569	-2.237 1.00 0.00
ATOM 834	0	GLY A	60 160.265 -5.647	-2.989 1.00 0.00
ATOM 835	H	GLY A	60 160.959 -8.373	-0.494 1.00 0.00
ATOM 836	1HA	GLY A	60 161.382 -7.943	-2.991 1.00 0.00
ATOM 837	2HA	GLY A	60 159.715 -8.469	-3.163 1.00 0.00
ATOM 838	N	CYS A	61 159.183 -6.395	-1.163 1.00 0.00
ATOM 839	CA	CYS A	61 158.664 -5.082	-0.798 1.00 0.00
ATOM 840	С	CYS A	61 159.626 -4.359	0.140 1.00 0.00
ATOM 841	0	CYS A	61 160.633 -4.922	0.567 1.00 0.00
ATOM 842	CB	CYS A	61 157.293 -5.218	-0.136 1.00 0.00
ATOM 843	SG	CYS A	61 156.080 -6.119	-1.129 1.00 0.00

ATOM 844	H	CYS A	61 158.963	-7.168	-0.602 1.00 0.00
ATOM 845	HA	CYS A	61 158.561	-4.503	-1.704 1.00 0.00
ATOM 846	1HB	CYS A	61 157.403	-5.742	0.801 1.00 0.00
ATOM 847	2HB	CYS A	61 156.894	-4.232	0.055 1.00 0.00
ATOM 848	HG	CYS A	61 156.127	-5.787	-2.029 1.00 0.00
ATOM 849	N	THR A	62 159.306	-3.107	0.457 1.00 0.00
ATOM 850	CA	THR A	62 160.142	-2.308	1.345 1.00 0.00
ATOM 851	С	THR A	62 159.530	-2.225	2.739 1.00 0.00
ATOM 852	0	THR A	62 158.568	-2.929	3.048 1.00 0.00
ATOM 853	CB	THR A	62 160.329	-0.902	0.774 1.00 0.00
ATOM 854	0G1	THR A	62 159.146	-0.138	0.925 1.00 0.00
ATOM 855	CG2	THR A	62 160.696	-0.896	-0.695 1.00 0.00
ATOM 856	H	THR A	62 158.490	-2.714	0.084 1.00 0.00
ATOM 857	HA	THR A	62 161.106	-2.789	1.416 1.00 0.00
ATOM 858	HB	THR A	62 161.123	-0.407	1.314 1.00 0.00
ATOM 859	HG1	THR A	62 158.400	-0.629	0.572 1.00 0.00
ATOM 860	1HG2	2 THR A	62 161.182	0.036	-0.941 1.00 0.00
ATOM 861	2HG	2 THR A	62 159.800	-1.003	-1.290 1.00 0.00
ATOM 862	3HG:	2 THR A	62 161.365	-1.718	-0.902 1.00 0.00
ATOM 863	N	ASP A	63 160.095	-1.362	3.578 1.00 0.00
ATOM 864	CA	ASP A	63 159.605	-1.188	4.940 1.00 0.00
ATOM 865	С	ASP A	63 158.822	0.115	5.073 1.00 0.00
ATOM 866	0	ASP A	63 158.815	0.740	6.134 1.00 0.00
ATOM 867	СВ	ASP A	63 160.772	-1.199	5.930 1.00 0.00
ATOM 868	CG	ASP A	63 161.778	-0.100	5.649 1.00 0.00
ATOM 869	OD1	ASP A	63 162.909	-0.422	5.230 1.00 0.00
ATOM 870	OD2	ASP A	63 161.434	1.085	5.850 1.00 0.00
ATOM 871	Н	ASP A	63 160.860	-0.830	3.272 1.00 0.00
ATOM 872	HA	ASP A	63 158.947	-2.013	5.164 1.00 0.00

ATOM 873	1HB	ASP A	63 160.389	-1.064	6.930 1.00 0.00
ATOM 874	2HB	ASP A	63 161.279	-2.151	5.867 1.00 0.00
ATOM 875	N	GLY A	64 158.166	0.519	3.991 1.00 0.00
ATOM 876	CA	GLY A	64 157.389	1.744	4.009 1.00 0.00
ATOM 877	С	GLY A	64 158.114	2.900	3.347 1.00 0.00
ATOM 878	0	GLY A	64 158.167	4.002	3.892 1.00 0.00
ATOM 879	Н	GLY A	64 158.208	-0.020	3.174 1.00 0.00
ATOM 880	1HA	GLY A	64 156.457	1.574	3.492 1.00 0.00
ATOM 881	2HA	GLY A	64 157.177	2.008	5.035 1.00 0.00
ATOM 882	N	THR A	65 158.674	2.647	2.168 1.00 0.00
ATOM 883	CA	THR A	65 159.399	3.675	1.431 1.00 0.00
ATOM 884	С	THR A	65 159.023	3.652	-0.047 1.00 0.00
ATOM 885	0	THR A	65 159.172	2.632	-0.720 1.00 0.00
ATOM 886	CB	THR A	65 160.908	3.476	1.589 1.00 0.00
ATOM 887	0G1	THR A	65 161.327	2.287	0.941 1.00 0.00
ATOM 888	CG2	THR A	65 161.353	3.394	3.032 1.00 0.00
ATOM 889	Н	THR A	65 158.598	1.748	1.786 1.00 0.00
ATOM 890	HA	THR A	65 159.127	4.635	1.845 1.00 0.00
ATOM 891	HB	THR A	65 161.420	4.310	1.131 1.00 0.00
ATOM 892	HG1	THR A	65 160.733	1.570	1.174 1.00 0.00
ATOM 893	1HG	2 THR A	65 161.703	2.395	3.245 1.00 0.00
ATOM 894	2HG	2 THR A	65 160.521	3.631	3.680 1.00 0.00
ATOM 895	3HC	2 THR A	65 162.154	4.099	3.203 1.00 0.00
ATOM 896	N	PHE A	66 158.536	4.784	-0.546 1.00 0.00
ATOM 897	CA	PHE A	66 158.138	4.894	-1.945 1.00 0.00
ATOM 898	С	PHE A	66 159.106	5.785	-2.717 1.00 0.00
ATOM 899	0	PHE A	66 159.243	6.971	-2.422 1.00 0.00
ATOM 900	CB	PHE A	66 156.718	3 5.452	-2.051 1.00 0.00
ATOM 901	CG	PHE A	66 156.05	1 5.152	-3.362 1.00 0.00

ATOM 902	CD1	PHE A	66 155.567	6.177 -	4.159 1.00 0.00
ATOM 903	CD2	PHE A	66 155.908	3.844 -	3.798 1.00 0.00
ATOM 904	CE1	PHE A	66 154.953	5.903 -	5.367 1.00 0.00
ATOM 905	CE2	PHE A	66 155.294	3.564 -	5.004 1.00 0.00
ATOM 906	CZ	PHE A	66 154.816	4.596 -	5.790 1.00 0.00
ATOM 907	Н	PHE A	66 158.441	5.563	0.040 1.00 0.00
ATOM 908	HA	PHE A	66 158.159	3.904 -	2.374 1.00 0.00
ATOM 909	1HB	PHE A	66 156.112	5.028 -	-1.265 1.00 0.00
ATOM 910	2HB	PHE A	66 156.752	6.526 -	-1.931 1.00 0.00
ATOM 911	HD1	PHE A	66 155.674	7.200 -	-3.829 1.00 0.00
ATOM 912	HD2	PHE A	66 156.282	3.037 -	-3.185 1.00 0.00
ATOM 913	HE1	PHE A	66 154.579	6.711 -	-5.978 1.00 0.00
ATOM 914	HE2	PHE A	66 155.189	2.541 -	-5.333 1.00 0.00
ATOM 915	HZ	PHE A	66 154.337	4.379	-6.732 1.00 0.00
ATOM 916	N	ARG A	67 159.776	5.204	-3.706 1.00 0.00
ATOM 917	CA	ARG A	67 160.732	5.945	-4.521 1.00 0.00
ATOM 918	С	ARG A	67 161.860	6.505	-3.662 1.00 0.00
ATOM 919	0	ARG A	67 162.359	7.602	-3.913 1.00 0.00
ATOM 920	CB	ARG A	67 160.026	7.082	-5.263 1.00 0.00
ATOM 921	CG	ARG A	67 158.955	6.606	-6.229 1.00 0.00
ATOM 922	CD	ARG A	67 158.909	7.468	-7.481 1.00 0.00
ATOM 923	NE	ARG A	67 160.062	7.236	-8.347 1.00 0.00
ATOM 924	CZ	ARG A	67 160.434	8.061	-9.323 1.00 0.00
ATOM 925	NH1	ARG A	67 159.746	9.171	-9.562 1.00 0.00
ATOM 926	NH2	ARG A	67 161.496	7.775 -	-10.064 1.00 0.00
ATOM 927	H	ARG A	67 159.624	4.254	-3.893 1.00 0.00
ATOM 928	HA	ARG A	67 161.150	5.261	-5.244 1.00 0.00
ATOM 929	1HB	ARG A	67 159.564	7.736	-4.539 1.00 0.00
ATOM 930	2HE	ARG A	67 160.762	7.642	-5.822 1.00 0.00

ATOM 931	1HG ARG A	67 159.166	5.587 -6	.514 1.00 0.00
ATOM 932	2HG ARG A	67 157.994	6.651 -5	.736 1.00 0.00
ATOM 933	1HD ARG A	67 158.008	7.237 -8	3.029 1.00 0.00
ATOM 934	2HD ARG A	67 158.894	8.507 -7	7.186 1.00 0.00
ATOM 935	HE ARG A	67 160.588	6.424 -8	3.193 1.00 0.00
ATOM 936	1HH1 ARG A	67 158.944	9.393 -9	0.007 1.00 0.00
ATOM 937	2HH1 ARG A	67 160.030	9.786 -10	0.297 1.00 0.00
ATOM 938	1HH2 ARG	A 67 162.018	6.940 -9	9.888 1.00 0.00
ATOM 939	2HH2 ARG	A 67 161.775	8.395 -10	0.798 1.00 0.00
ATOM 940	N GLY	A 68 162.258	5.744 -2	2.648 1.00 0.00
ATOM 941	CA GLY	A 68 163.326	6.180 -	1.767 1.00 0.00
ATOM 942	C GLY	A 68 162.888	3 7.290 -	0.831 1.00 0.00
ATOM 943	O GLY	A 68 163.699	8.118 -	0.417 1.00 0.00
ATOM 944	H GLY	A 68 161.824	4.879 -	2.497 1.00 0.00
ATOM 945	1HA GLY	A 68 163.660	5.339 -	1.179 1.00 0.00
ATOM 946	2HA GLY	A 68 164.15	0 6.537 -	2.368 1.00 0.00
ATOM 947	n thr	A 69 161.60	2 7.306 -	0.497 1.00 0.00
ATOM 948	CA THR	A 69 161.05	7 8.321	0.396 1.00 0.00
ATOM 949	C THR	A 69 160.16	8 7.689	1.461 1.00 0.00
ATOM 950	O THR	A 69 159.05	5 7.247	1.174 1.00 0.00
ATOM 951	CB THR	A 69 160.26	1 9.357 -	0.401 1.00 0.00
ATOM 952	OG1 THR	A 69 160.90	0 9.644 -	-1.631 1.00 0.00
ATOM 953	CG2 THR	A 69 160.07	5 10.666	0.336 1.00 0.00
ATOM 954	H THR	A 69 161.00	5 6.618 -	-0.860 1.00 0.00
ATOM 955	HA THR	A 69 161.88	6 8.814	0.882 1.00 0.00
ATOM 956	HB THR	A 69 159.28	8.955	-0.614 1.00 0.00
ATOM 957	HG1 THR	A 69 161.77	3 10.008 -	-1.461 1.00 0.00
ATOM 958	1HG2 THR	A 69 160.25	66 11.488 -	-0.340 1.00 0.00
ATOM 959	2HG2 THR	A 69 160.77	2 10.717	1.160 1.00 0.00

ATOM 960	3HG2	THR A	69 159.065	10.725	0.714 1.00 0.00
ATOM 961	N	ARG A	70 160.666	7.649	2.693 1.00 0.00
ATOM 962	CA	ARG A	70 159.916	7.070	3.801 1.00 0.00
ATOM 963	С	ARG A	70 158.751	7.971	4.200 1.00 0.00
ATOM 964	0	ARG A	70 158.945	9.137	4.541 1.00 0.00
ATOM 965	CB	ARG A	70 160.835	6.844	5.004 1.00 0.00
ATOM 966	CG	ARG A	70 160.136	6.206	6.193 1.00 0.00
ATOM 967	CD	ARG A	70 160.931	6.397	7.474 1.00 0.00
ATOM 968	NE .	ARG A	70 162.034	5.445	7.582 1.00 0.00
ATOM 969	CZ	ARG A	70 163.054	5.585	8.426 1.00 0.00
ATOM 970	NH1	ARG A	70 163.116	6.635	9.235 1.00 0.00
ATOM 971	NH2	ARG A	70 164.015	4.673	8.459 1.00 0.00
ATOM 972	H	ARG A	70 161.559	8.016	2.860 1.00 0.00
ATOM 973	HA	ARG A	70 159.524	6.118	3.476 1.00 0.00
ATOM 974	1HB	ARG A	70 161.649	6.200	4.704 1.00 0.00
ATOM 975	2HB	ARG A	70 161.239	7.796	5.318 1.00 0.00
ATOM 976	1HG	ARG A	70 159.164	6.660	6.312 1.00 0.00
ATOM 977	2HG	ARG A	70 160.020	5.149	6.005 1.00 0.00
ATOM 978	1HD	ARG A	70 161.331	7.400	7.489 1.00 0.00
ATOM 979	2HD	ARG A	70 160.268	6.263	8.317 1.00 0.00
ATOM 980	HE	ARG A	70 162.013	4.661	6.995 1.00 0.00
ATOM 981	1HH	1 ARG A	70 162.394	7.327	9.215 1.00 0.00
ATOM 982	2HH	1 ARG A	70 163.885	6.734	9.866 1.00 0.00
ATOM 983	1HH	2 ARG A	70 163.974	3.880	7.851 1.00 0.00
ATOM 984	2HH	2 ARG A	70 164.782	2 4.778	9.092 1.00 0.00
ATOM 985	N	TYR A	71 157.543	3 7.421	4.154 1.00 0.00
ATOM 986	CA	TYR A	71 156.346	8.176	4.510 1.00 0.00
ATOM 987	С	TYR A	71 155.852	2 7.788	5.900 1.00 0.00
ATOM 988	0	TYR A	71 155.446	8.644	6.686 1.00 0.00

ATOM 989	СВ	TYR A	71	155.242	7.936	3.479 1.00 0.00
ATOM 990	CG	TYR A	71	155.536	8.538	2.124 1.00 0.00
ATOM 991	CD1	TYR A	71	156.048	9.825	2.011 1.00 0.00
ATOM 992	CD2	TYR A	71	155.304	7.820	0.958 1.00 0.00
ATOM 993	CE1	TYR A	71	156.318	10.379	0.773 1.00 0.00
ATOM 994	CE2	TYR A	71	155.572	8.367	-0.283 1.00 0.00
ATOM 995	CZ	TYR A	71	156.079	9.647	-0.369 1.00 0.00
ATOM 996	ОН	TYR A	71	156.347	10.193	-1.603 1.00 0.00
ATOM 997	Н	TYR A	71	157.452	6.487	3.874 1.00 0.00
ATOM 998	HA	TYR A	71	156.604	9.224	4.511 1.00 0.00
ATOM 999	1HB	TYR A	71	155.106	6.873	3.346 1.00 0.00
ATOM 1000	2HB	TYR A	71	154.321	8.368	3.842 1.00 0.00
ATOM 1001	HD1	TYR A	71	156.234	10.397	2.908 1.00 0.00
ATOM 1002	HD2	TYR A	71	154.906	6.819	1.029 1.00 0.00
ATOM 1003	HE1	TYR A	71	156.716	11.381	0.706 1.00 0.00
ATOM 1004	HE2	TYR A	7	155.384	7.793	-1.178 1.00 0.00
ATOM 1005	НН	TYR A	7	1 157.236	9.952	-1.874 1.00 0.00
ATOM 1006	N	PHE A	72	2 155.891	6.494	6.197 1.00 0.00
ATOM 1007	CA	PHE A	7	2 155.448	5.993	7.492 1.00 0.00
ATOM 1008	С	PHE A	7	2 156.433	4.968	8.045 1.00 0.00
ATOM 1009	0	PHE A	7	2 157.368	4.556	7.358 1.00 0.00
ATOM 1010	CB	PHE A	7	2 154.057	5.368	7.373 1.00 0.00
ATOM 1011	. CG	PHE A	7	2 153.981	4.262	6.359 1.00 0.00
ATOM 1012	CD1	PHE A	7	2 154.205	2.946	6.733 1.00 0.00
ATOM 1013	CD2	PHE A	7	2 153.686	4.538	5.034 1.00 0.00
ATOM 1014	L CE	PHE A	. 7	2 154.135	1.926	5.802 1.00 0.00
ATOM 1015	5 CE2	PHE A	. 7	2 153.616	3.522	4.099 1.00 0.00
ATOM 1016	6 CZ	PHE A	. 7	72 153.841	2.214	4.484 1.00 0.00
ATOM 1017	7 H	PHE A	. 7	72 156.226	5.859	5.528 1.00 0.00

ATOM 1	.018	HA	PHE A	72	155.399	6.831	8.172	1.00	0.00
ATOM 1	019	1HB	PHE A	72	153.769	4.961	8.330	1.00	0.00
ATOM 1	1020	2HB	PHE A	72	153.350	6.133	7.084	1.00	0.00
ATOM 3	1021	HD1	PHE A	72	154.434	2.719	7.763	1.00	0.00
ATOM :	1022	HD2	PHE A	72	153.511	5.560	4.731	1.00	0.00
ATOM :	1023	HE1	PHE A	72	154.311	0.905	6.106	1.00	0.00
ATOM	1024	HE2	PHE A	72	153.386	3.751	3.069	1.00	0.00
ATOM	1025	HZ	PHE A	72	153.786	1.419	3.756	1.00	0.00
ATOM	1026	N	THR A	73	156.216	4.559	9.291	1.00	0.00
ATOM	1027	CA	THR A	73	157.085	3.581	9.937	1.00	0.00
ATOM	1028	C	THR A	73	156.374	2.242	10.094	1.00	0.00
ATOM	1029	0	THR A	73	155.396	2.129	10.834	1.00	0.00
ATOM	1030	CB	THR A	73	157.538	4.094	11.304	1.00	0.00
ATOM	1031	OG1	THR A	73	157.838	5.477	11.247	1.00	0.00
ATOM	1032	CG2	THR A	73	158.761	3.380	11.837	1.00	0.00
ATOM	1033	H	THR A	73	155.455	4.923	9.789	1.00	0.00
ATOM	1034	HA	THR A	73	157.952	3.443	9.309	1.00	0.00
ATOM	1035	HB	THR A	73	3 156.736	3.951	12.015	1.00	0.00
ATOM	1036	HG1	THR A	73	3 157.472	5.918	12.018	3 1.00	0.00
ATOM	1037	1HG2	2 THR A	73	3 159.373	4.077	12.389	1.0	0.00
ATOM	1038	2HG2	2 THR A	. 73	3 159.331	2.978	11.01	1.0	0.00
ATOM	1039	3HG:	2 THR A	. 7:	3 158.454	2.575	12.48	7 1.0	0.00
ATOM	1040	N	CYS A	. 74	4 156.871	1.227	9.394	1.0	0.00
ATOM	1041	CA	CYS A	7	4 156.282	-0.106	9.45	5 1.0	0 0.00
ATOM	1042	C	CYS A	7	4 157.366	-1.179	9.45	9 1.0	0.00
ATOM	1043	0	CYS A	7	4 158.558	-0.871	9.47	5 1.0	0.00
ATOM	1044	. CB	CYS A	1 7	4 155.336	-0.324	8.27	2 1.0	0.00
ATOM	1 1045	s SG	CYS A	A 7	4 153.626	0.165	8.59	4 1.0	0.00
ATOM	1046	S Н	CYS A	A 7	4 157.652	1.380	8.82	1 1.0	0.00

ATOM 10	047	HA	CYS A	74	155.718	-0.177	10.373	1.00 0.00
ATOM 1	048	1HB	CYS A	74	155.688	0.251	7.429	1.00 0.00
ATOM 1	049	2HB	CYS A	74	155.336	-1.372	8.011	1.00 0.00
ATOM 1	050	HG	CYS A	74	153.519	0.260	9.543	1.00 0.00
ATOM 1	051	N	ALA A	75	156.944	-2.438	9.446	1.00 0.00
ATOM 1	052	CA	ALA A	75	157.878	-3.557	9.448	1.00 0.00
ATOM 1	.053	С	ALA A	75	158.504	-3.753	8.071	1.00 0.00
ATOM 1	.054	0	ALA A	75	158.021	-3.212	7.077	1.00 0.00
ATOM 1	055	СВ	ALA A	75	157.177	-4.830	9.897	1.00 0.00
ATOM 1	1056	Н	ALA A	75	155.981	-2.620	9.434	1.00 0.00
ATOM 1	1057	HA	ALA A	7 5	158.661	-3.336	10.159	1.00 0.00
ATOM 1	1058	1HB	ALA A	7 5	156.438	-4.588	10.647	1.00 0.00
ATOM 3	1059	2HB	ALA A	75	157.902	-5.513	10.314	1.00 0.00
ATOM :	1060	ЗНВ	ALA A	7 5	156.692	-5.292	9.049	1.00 0.00
ATOM	1061	N	LEU A	76	159.581	-4.530	8.02	1.00 0.00
ATOM	1062	CA	LEU A	76	160.273	-4.798	6.765	5 1.00 0.00
ATOM	1063	С	LEU A	76	159.514	-5.828	5.93	5 1.00 0.00
ATOM	1064	0	LEU A	76	158.956	-6.784	6.47	3 1.00 0.00
ATOM	1065	CB	LEU A	76	161.695	-5.292	7.03	7 1.00 0.00
ATOM	1066	CG	LEU A	76	162.712	-4.195	7.35	2 1.00 0.00
ATOM	1067	CD1	LEU A	. 76	6 163.770	-4.708	8.31	7 1.00 0.00
ATOM	1068	CD2	LEU A	. 76	6 163.358	-3.686	6.07	2 1.00 0.00
ATOM	1069	Н	LEU A	. 76	5 159.919	-4.933	8.84	8 1.00 0.00
ATOM	1070	HA	LEU A	. 70	6 160.323	-3.872	6.21	2 1.00 0.00
ATOM	1071	1HB	LEU A	. 70	6 161.661	_5.975	7.87	4 1.00 0.00
ATOM	1072	2HB	LEU A	7	6 162.038	3 -5.832	6.16	88 1.00 0.00
ATOM	1073	HG	LEU A	7	6 162.204	-3.366	7.82	24 1.00 0.00
ATOM	1074	. 1HD	1 LEU A	A 7	6 164.717	7 -4.240	8.09	96 1.00 0.00
ATOM	1075	5 2HD	1 LEU A	A 7	6 163.865	5 -5.779	8.2	1.00 0.00

ATOM J	1076	3HD1	LEU A	76	163.478	-4.472	9.330 1.00 0.00
ATOM 1	1077	1HD2	LEU A	. 76	162.688	-3.851	5.241 1.00 0.00
ATOM :	1078	2HD2	LEU A	. 76	164.282	-4.216	5.899 1.00 0.00
ATOM :	1079	3HD2	LEU A	76	163.562	-2.630	6.166 1.00 0.00
ATOM :	1080	N	LYS A	77	159.498	-5.627	4.621 1.00 0.00
ATOM	1081	CA	LYS A	77	158.807	-6.538	3.716 1.00 0.00
ATOM	1082	С	LYS A	77	157.311	-6.563	4.005 1.00 0.00
ATOM	1083	0	LYS A	A 77	156.676	-7.618	3.962 1.00 0.00
ATOM	1084	CB	LYS A	A 77	159.387	-7.948	3.836 1.00 0.00
ATOM	1085	CG	LYS A	A 77	160.907	-7.984	3.832 1.00 0.00
ATOM	1086	CD	LYS	A 77	161.469	-7.583	2.478 1.00 0.00
ATOM	1087	CE	LYS	A 77	162.944	-7.228	2.570 1.00 0.00
ATOM	1088	NZ	LYS .	A 77	163.150	-5.792	2.908 1.00 0.00
ATOM	1089	H	LYS .	A 77	159.962	-4.846	4.252 1.00 0.00
ATOM	1090	HA	LYS	A 77	158.960	-6.181	2.707 1.00 0.00
ATOM	1091	1HB	LYS	A 77	159.041	-8.389	4.760 1.00 0.00
ATOM	1092	2HB	LYS	A 77	159.033	-8.544	3.008 1.00 0.00
ATOM	1093	1HG	LYS	A 77	7 161.275	-7.299	4.580 1.00 0.00
ATOM	1094	2HG	LYS	A 77	7 161.235	-8.987	4.066 1.00 0.00
ATOM	1095	1HD	LYS	A 7	7 161.351	-8.408	1.791 1.00 0.00
ATOM	1096	2HD	LYS	A 7'	7 160.924	-6.726	2.112 1.00 0.00
ATOM	1097	1HE	LYS	A 7'	7 163.401	-7.837	3.337 1.00 0.00
ATOM	1098	2HE	LYS	A 7	7 163.412	-7.436	1.619 1.00 0.00
ATOM	1099	1HZ	LYS	A 7	7 163.311	-5.241	2.041 1.00 0.00
ATOM	1100	2HZ	LYS	A 7	7 163.976	-5.686	3.531 1.00 0.00
ATOM	1101	3HZ	LYS	A 7	7 162.312	-5.416	3.395 1.00 0.00
ATOM	1102	N	LYS	A 7	8 156.750	-5.395	4.301 1.00 0.00
ATOM	1103	CA	LYS	A 7	8 155.326	5 -5.284	4.597 1.00 0.00
ATOM	i 1104	. C	LYS	A 7	8 154.793	3 -3.911	4.198 1.00 0.00

ATOM 1105 O	LYS A 7	78 153.981 -3.318	4.908 1.00 0.00
ATOM 1106 CB	LYS A 7	78 155.074 -5.529	6.086 1.00 0.00
ATOM 1107 CG	LYS A 7	78 155.640 -6.847	6.590 1.00 0.00
ATOM 1108 CD	LYS A	78 155.270 -7.094	8.043 1.00 0.00
ATOM 1109 CE	LYS A	78 154.151 -8.116	8.169 1.00 0.00
ATOM 1110 NZ	LYS A	78 153.312 -7.875	9.376 1.00 0.00
ATOM 1111 H	LYS A	78 157.306 -4.589	4.318 1.00 0.00
ATOM 1112 HA	LYS A	78 154.809 -6.038	4.024 1.00 0.00
ATOM 1113 1HB	LYS A	78 155.525 -4.728	6.653 1.00 0.00
ATOM 1114 2HB	LYS A	78 154.009 -5.529	6.264 1.00 0.00
ATOM 1115 1HG	LYS A	78 155.244 -7.651	5.986 1.00 0.00
ATOM 1116 2HG	LYS A	78 156.716 -6.823	6.500 1.00 0.00
ATOM 1117 1HD	LYS A	78 156.139 -7.463	8.568 1.00 0.00
ATOM 1118 2HD	LYS A	78 154.947 -6.164	8.487 1.00 0.00
ATOM 1119 1HE	LYS A	78 153.526 -8.055	7.291 1.00 0.00
ATOM 1120 2HE	E LYS A	78 154.586 -9.102	8.234 1.00 0.00
ATOM 1121 1H2	Z LYS A	78 153.289 -6.859	9.599 1.00 0.00
ATOM 1122 2HZ	Z LYS A	78 153.703 -8.388	10.191 1.00 0.00
ATOM 1123 3HZ	Z LYS A	78 152.341 -8.205	9.207 1.00 0.00
ATOM 1124 N	ALA A	79 155.255 -3.413	3.056 1.00 0.00
ATOM 1125 CA	ALA A	79 154.824 –2.111	2.561 1.00 0.00
ATOM 1126 C	ALA A	79 154.652 -2.129	1.047 1.00 0.00
ATOM 1127 O	ALA A	79 155.630 -2.201	0.301 1.00 0.00
ATOM 1128 CB	ALA A	79 155.822 -1.036	2.968 1.00 0.00
ATOM 1129 H	ALA A	79 155.901 -3.932	2.534 1.00 0.00
ATOM 1130 HA	ALA A	79 153.874 -1.878	3.019 1.00 0.00
ATOM 1131 1F	IB ALA A	79 155.857 -0.270	2.207 1.00 0.00
ATOM 1132 2F	IB ALA A	79 156.801 -1.477	3.080 1.00 0.00
ATOM 1133 3F	B ALA A	79 155.515 -0.597	3.906 1.00 0.00

ATOM 1134	N	LEU A	80	153.404	-2.063	0.597 1.00 0.00
ATOM 1135	CA	LEU A	80	153.103	-2.072	-0.829 1.00 0.00
ATOM 1136	С	LEU A	80	152.276	-0.851	-1.218 1.00 0.00
ATOM 1137	0	LEU A	80	151.095	-0.756	-0.884 1.00 0.00
ATOM 1138	CB	LEU A	80	152.352	-3.352	-1.205 1.00 0.00
ATOM 1139	CG	LEU A	80	151.922	-3.444	-2.670 1.00 0.00
ATOM 1140	CD1	LEU A	80	153.135	-3.587	-3.575 1.00 0.00
ATOM 1141	CD2	LEU A	80	150.964	-4.609	-2.871 1.00 0.00
ATOM 1142	Н	LEU A	80	152.667	-2.007	1.240 1.00 0.00
ATOM 1143	HA	LEU A	80	154.039	-2.044	-1.367 1.00 0.00
ATOM 1144	1HB	LEU A	80	152.990	-4.195	-0.985 1.00 0.00
ATOM 1145	2HB	LEU A	80	151.468	-3.420	-0.589 1.00 0.00
ATOM 1146	HG	LEU A	80	151.406	-2.535	-2.944 1.00 0.00
ATOM 1147	1HD	LEU A	80	152.858	-4.131	-4.466 1.00 0.00
ATOM 1148	2HD	ı LEU A	80	153.913	-4.124	-3.052 1.00 0.00
ATOM 1149	3HD	1 LEU A	80	153.497	-2.607	-3.850 1.00 0.00
ATOM 1150	1HD	2 LEU A	80) 151.527	-5.499	-3.113 1.00 0.00
ATOM 1151	2HD	2 LEU A	. 80	150.285	-4.382	-3.679 1.00 0.00
ATOM 1152	3HD	2 LEU A	. 80	0 150.403	-4.774	-1.963 1.00 0.00
ATOM 1153	N	PHE A	. 8	1 152.905	0.081	-1.927 1.00 0.00
ATOM 1154	CA	PHE A	8	1 152.227	1.297	-2.362 1.00 0.00
ATOM 1155	s C	PHE A	8	1 151.405	1.041	-3.622 1.00 0.00
ATOM 1156	6 0	PHE A	8	1 151.884	0.420	-4.571 1.00 0.00
ATOM 1157	7 CB	PHE A	8	1 153.246	2.408	-2.621 1.00 0.00
ATOM 1158	3 CG	PHE A	8 A	153.856	2.967	-1.367 1.00 0.00
ATOM 1159	CD:	1 PHE	A 8	31 153.20	1 3.948	-0.640 1.00 0.00
ATOM 1160	CD:	2 PHE	A 8	31 155.08	4 2.511	-0.916 1.00 0.00
ATOM 116	1 CE	1 PHE	A 8	31 153.75	9 4.463	0.514 1.00 0.00
ATOM 116	2 CE	2 PHE	A 8	31 155.64	9 3.023	0.237 1.00 0.00

ATOM 1163	CZ	PHE A	81 15	4.985	4.000	0.953	1.00 ().00
ATOM 1164	Н	PHE A	81 15	3.846	-0.052	-2.164	1.00 ().00
ATOM 1165	HA	PHE A	81 15	1.563	1.607	-1.570	1.00 (0.00
ATOM 1166	1HB	PHE A	81 15	4.045	2.019	-3.234	1.00 (0.00
ATOM 1167	2HB	PHE A	81 15	2.759	3.218	-3.145	1.00	0.00
ATOM 1168	HD1	PHE A	81 15	2.243	4.310	-0.982	1.00	0.00
ATOM 1169	HD2	PHE A	81 15	5.604	1.747	-1.476	1.00	0.00
ATOM 1170	HE1	PHE A	81 15	3.240	5.228	1.072	1.00	0.00
ATOM 1171	HE2	PHE A	81 15	6.607	2.659	0.578	1.00	0.00
ATOM 1172	HZ	PHE A	81 15	55.424	4.401	1.854	1.00	0.00
ATOM 1173	N	VAL A	82 15	50.167	1.524	-3.623	1.00	0.00
ATOM 1174	CA	VAL A	82 14	49.280	1.347	-4.765	1.00	0.00
ATOM 1175	С	VAL A	82 14	48.315	2.521	-4.898	1.00	0.00
ATOM 1176	0	VAL A	82 1	48.180	3.332	-3.983	1.00	0.00
ATOM 1177	CB	VAL A	82 1	48.470	0.042	-4.652	1.00	0.00
ATOM 1178	CG1	VAL A	82 1	49.379	-1.166	-4.809	1.00	0.00
ATOM 1179	CG2	VAL A	82 1	47.724	-0.010	-3.327	1.00	0.00
ATOM 1180	H	VAL A	82 1	49.843	2.010	-2.836	1.00	0.00
ATOM 1181	HA	VAL A	82 1	49.889	1.292	-5.656	1.00	0.00
ATOM 1182	ΗВ	VAL A	82 1	47.742	0.022	-5.450	1.00	0.00
ATOM 1183	1HG	1 VAL A	82 1	.50.018	-1.028	-5.668	1.00	0.00
ATOM 1184	2HG	1 VAL A	82 1	48.779	-2.054	-4.947	1.00	0.00
ATOM 1185	3HG	1 VAL A	82 1	49.987	-1.278	-3.923	1.00	0.00
ATOM 1186	1HG	2 VAL A	. 82 1	147. 242	-0.971	-3.223	1.00	0.00
ATOM 1187	2H0	32 VAL A	82]	146.979	0.771	-3.303	1.00	0.00
ATOM 1188	3HC	32 VAL A	82	148.422	0.131	-2.515	1.00	0.00
ATOM 1189	N	LYS A	83	147.645	2.602	-6.043	3 1.00	0.00
ATOM 1190	CA	LYS A	83	146.693	3.677	-6. 295	5 1.00	0.00
ATOM 1191	C	LYS A	83	145.494	3.573	-5.358	3 1.00	0.00

ATOM 3	1192	0	LYS A	83 144.809	2.552 -5.318 1.00 0.00
ATOM :	1193	CB	LYS A	83 146.223	3.638 -7.751 1.00 0.00
ATOM	1194	CG	LYS A	83 147.353	3.770 -8.758 1.00 0.00
MOTA	1195	CD	LYS A	83 146.881	3.453 -10.168 1.00 0.00
MOTA	1196	CE	LYS A	83 147.739	4.151 -11.212 1.00 0.00
ATOM	1197	NZ	LYS A	83 148.766	3.239 -11.787 1.00 0.00
ATOM	1198	H	LYS A	83 147.796	1.924 -6.735 1.00 0.00
ATOM	1199	HA	LYS A	83 147.196	4.615 -6.114 1.00 0.00
ATOM	1200	1HB	LYS A	83 145.717	2.701 -7.929 1.00 0.00
ATOM	1201	2HB	LYS A	83 145.528	4.449 -7.914 1.00 0.00
MOTA	1202	1HG	LYS A	83 147.728	4.782 -8.734 1.00 0.00
ATOM	1203	2HG	LYS A	83 148.143	3.085 -8.489 1.00 0.00
ATOM	1204	1HD	LYS A	83 146.938	2.386 -10.325 1.00 0.00
ATOM	1205	2HD	LYS A	83 145.858	3.782 -10.277 1.00 0.00
ATOM	1206	1HE	LYS A	83 147.099	4.504 -12.007 1.00 0.00
ATOM	1207	2HE	LYS A	83 148.234	4.991 -10.749 1.00 0.00
MOTA	1208	1HZ	LYS A	83 148.971	2.466 -11.121 1.00 0.00
ATOM	1209	2HZ	LYS A	83 149.645	3.761 -11.974 1.00 0.00
ATOM	1210	3HZ	LYS A	83 148.422	2.831 -12.680 1.00 0.00
ATOM	1211	N	LEU A	84 145.250	4.640 -4.605 1.00 0.00
ATOM	1212	CA	LEU A	84 144.136	4.675 -3.666 1.00 0.00
ATOM	1213	С	LEU A	84 142.808	4.456 -4.384 1.00 0.00
ATOM	1214	0	LEU A	84 141.894	3.832 -3.844 1.00 0.00
ATOM	1215	CB	LEU A	84 144.115	6.015 -2.924 1.00 0.00
ATOM	1216	CG	LEU A	84 142.921	6.222 -1.990 1.00 0.00
ATOM	1217	CD1	LEU A	84 143.105	5.434 -0.703 1.00 0.00
ATOM	1218	CD2	LEU A	84 142.732	7.702 -1.689 1.00 0.00
ATOM	1219	Н	LEU A	84 145.833	5.423 -4.683 1.00 0.00
ATOM	1 1220	HA	LEU A	84 144.280	3.880 -2.950 1.00 0.00

ATOM 1	1221	1HB	LEU A	84	145.020	6.091	-2.340	1.00 0.	.00
ATOM 3	1222	2HB	LEU A	84	144.112	6.807	-3.658	1.00 0.	.00
ATOM 3	1223	HG	LEU A	84	142.025	5.863	-2.476	1.00 0	. 00
ATOM :	1224	1HD1	LEU A	84	142.152	5.045	-0.380	1.00 0	. 00
ATOM :	1225	2HD1	LEU A	84	143.508	6.082	0.061	1.00 0	.00
ATOM	1226	3HD1	LEU A	84	143.789	4.616	-0.878	1.00 0	.00
ATOM	1227	1HD2	LEU A	84	142.418	8.215	-2.586	1.00 0	.00
ATOM	1228	2HD2	LEU A	84	143.667	8.121	-1.345	1.00 0	.00
ATOM	1229	3HD2	LEU A	84	141.981	7.821	-0.924	1.00 0	. 00
ATOM	1230	N	LYS A	85	142.708	4.971	-5.606	1.00 0	.00
ATOM	1231	CA	LYS A	85	141.491	4.830	-6.398	1.00 0	0.00
ATOM	1232	C	LYS A	85	141.220	3.365	-6.728	1.00	0.00
ATOM	1233	0	LYS A	85	140.075	2.975	-6.956	1.00 (0.00
ATOM	1234	CB	LYS A	85	141.602	5.645	-7.688	3 1.00 (0.00
ATOM	1235	CG	LYS A	85	5 142.793	5.264	-8.549	1.00 (0.00
ATOM	1236	CD	LYS A	85	5 143.264	6.434	-9.398	3 1.00	0.00
ATOM	1237	CE	LYS A	85	5 144.650	6.186	-9.970	1.00	0.00
ATOM	1238	NZ	LYS A	. 8	5 145.138	7.346	-10.76	6 1.00	0.00
ATOM	1239	H	LYS A	. 8	5 143.471	5.458	-5.98	2 1.00	0.00
ATOM	1240	HA	LYS A	. 8	5 140.670	5.213	-5.81	1 1.00	0.00
ATOM	1241	1HB	LYS A	. 8	5 140.702	5.500	-8.26	9 1.00	0.00
ATOM	1242	2HB	LYS A	8	5 141.690	6.691	-7.43	3 1.00	0.00
ATOM	1243	1HG	LYS A	8	5 143.602	4.949	-7.90	9 1.00	0.00
ATOM	I 1244	2HG	LYS A	8	5 142.509	4.449	-9.20	0 1.00	0.00
ATOM	I 1245	1HD	LYS A	8	5 142.570	6.576	-10.21	4 1.00	0.00
ATOM	1246	2HD	LYS A	8 <i>A</i>	5 143.289	7.323	-8.78	6 1.00	0.00
ATON	i 1247	1HE	E LYS A	A 8	35 145.335	6.008	-9.15	4 1.00	0.00
ATON	A 1248	3 2HE	E LYS	A 8	35 144.613	5.314	-10.60	5 1.00	0.00
ATO	M 1249) 1H2	Z LYS	A 8	35 146.175	7.409	-10.70	8 1.00	0.00

ATOM J	1250	2HZ	LYS A	85 144.728	8.229 -	10.401 1.00 0.00
ATOM 3	1251	3HZ	LYS A	85 144.863	7.236 -	11.763 1.00 0.00
ATOM :	1252	N	SER A	86 142.277	2.559	-6.753 1.00 0.00
ATOM :	1253	CA	SER A	86 142.146	1.139	-7.057 1.00 0.00
ATOM	1254	С	SER A	86 142.102	0.309	-5.777 1.00 0.00
ATOM	1255	0	SER A	86 142.605	-0.814	-5.737 1.00 0.00
ATOM	1256	CB	SER A	86 143.308	0.676	-7.938 1.00 0.00
ATOM	1257	OG	SER A	86 143.567	1.608	-8.973 1.00 0.00
ATOM	1258	H	SER A	86 143.165	2.928	-6.563 1.00 0.00
ATOM	1259	HA	SER A	86 141.220	0.999	-7.594 1.00 0.00
ATOM	1260	1HB	SER A	86 144.197	0.572	-7.334 1.00 0.00
ATOM	1261	2HB	SER A	86 143.062	-0.278	-8.382 1.00 0.00
ATOM	1262	HG	SER A	86 143.066	1.365	-9.755 1.00 0.00
ATOM	1263	N	CYS A	87 141.498	0.868	-4.734 1.00 0.00
ATOM	1264	CA	CYS A	87 141.387	0.180	-3.453 1.00 0.00
ATOM	1265	С	CYS A	87 139.928	-0.097	-3.109 1.00 0.00
ATOM	1266	0	CYS A	87 139.021	0.538	-3.648 1.00 0.00
ATOM	1267	CB	CYS A	87 142.036	1.012	-2.345 1.00 0.00
ATOM	1268	SG	CYS A	87 143.843	1.034	-2.401 1.00 0.00
ATOM	1269	Н	CYS A	87 141.116	1.766	-4.828 1.00 0.00
ATOM	1270	HA	CYS A	87 141.910	-0.761	-3.537 1.00 0.00
ATOM	1271	1HB	CYS A	87 141.693	2.032	-2.424 1.00 0.00
ATOM	1272	2HE	CYS A	87 141.740	0.613	-1.386 1.00 0.00
ATOM	1273	HG	CYS A	87 144.122	0.522	-3.164 1.00 0.00
ATOM	1.1274	. N	ARG A	88 139.706	-1.049	-2.208 1.00 0.00
ATON	1275	CA.	ARG A	A 88 138.356	-1.408	-1.793 1.00 0.00
ATON	A 1276	S _C C	ARG A	A 88 138.267	-1.531	-0.272 1.00 0.00
ATOM	M 1277	7 0	ARG A	A 88 139.211	-1.983	0.376 1.00 0.00
ATO	M 1278	3 CB	ARG A	A 88 137.932	2 -2.723	-2.448 1.00 0.00

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ATOM	1279	CG	ARG A	88	137.230	-2.538	-3.784 1.00 0.00
ATOM	1280	CD	ARG A	88	135.718	-2.566	-3.627 1.00 0.00
ATOM	1281	NE	ARG A	88	135.059	-3.157	-4.789 1.00 0.00
ATOM	1282	CZ	ARG A	88	135.003	-2.577	-5.985 1.00 0.00
ATOM	1283	NH1	ARG A	88	135.566	-1.391	-6.183 1.00 0.00
ATOM	1284	NH2	ARG A	88	134.382	-3.184	-6.987 1.00 0.00
ATOM	1285	H	ARG A	88	140.470	-1.520	-1.812 1.00 0.00
ATOM	1286	HA	ARG A	88	137.691	-0.623	-2.119 1.00 0.00
ATOM	1287	1HB	ARG A	88	138.810	-3.332	-2.608 1.00 0.00
ATOM	1288	2HB	ARG A	88	137.260	-3.244	-1.782 1.00 0.00
ATOM	1289	1HG	ARG A	88	137. 521	-1.587	-4.204 1.00 0.00
MOTA	1290	2HG	ARG A	88	137.529	-3.335	-4.449 1.00 0.00
ATOM	1291	1HD	ARG A	88	135.471	-3.146	-2.750 1.00 0.00
ATOM	1292	2HD	ARG A	88	135.364	-1.553	-3.501 1.00 0.00
ATOM	1293	HE	ARG A	88	3 134.634	-4.033	-4.672 1.00 0.00
ATOM	1294	1HH1	ARG A	88	3 136.035	-0.928	-5.431 1.00 0.00
ATOM	1295	2HH1	ARG A	88	3 135.520	-0.961	-7.084 1.00 0.00
ATOM	1296	1HH2	ARG A	88	3 133.956	-4.077	-6.844 1.00 0.00
ATOM	1297	2HH2	ARG A	88	3 134.340	-2.748	-7.887 1.00 0.00
ATOM	1298	N	PRO A	89	9 137.126	-1.131	0.319 1.00 0.00
ATOM	1 1299	CA	PRO A	. 89	9 136.924	-1.201	1.769 1.00 0.00
ATOM	i 1300	С	PRO A	. 89	9 137.168	-2.603	2.320 1.00 0.00
ATON	1 1301	0	PRO A	. 8	9 136.530	-3.566	1.898 1.00 0.00
ATOM	A 1302	CB	PRO A	8	9 135.455	-0.807	. 1.948 1.00 0.00
ATOM	M 1303	CG	PRO A	8	9 135.126	6 -0.003	0.740 1.00 0.00
ATO!	M 1304	. CD	PRO A	8	9 135.949	-0.58	-0.377 1.00 0.00
ATO	M 1305	5 HA	PRO A	8	9 137.55	5 -0.497	7 2.291 1.00 0.00
ATO	M 1306	5 1HB	PRO A	8	9 134.846	6 -1.698	2.009 1.00 0.00
ATO:	M 1307	7 2HB	PRO A	8 4	9 135.34	3 -0.22	5 2.851 1.00 0.00

ATOM 1308	1HG	PRO A	89 134.074	-0.091	0.515 1.00 0.00
ATOM 1309	2HG	PRO A	89 135.390	1.031	0.903 1.00 0.00
ATOM 1310	1HD	PRO A	89 135.401	-1.361	-0.886 1.00 0.00
ATOM 1311	2HD	PRO A	89 136.239	0.195	-1.072 1.00 0.00
ATOM 1312	N	ASP A	90 138.095	-2.707	3.267 1.00 0.00
ATOM 1313	CA	ASP A	90 138.422	-3.991	3.877 1.00 0.00
ATOM 1314	C	ASP A	90 137.795	-4.110	5.262 1.00 0.00
ATOM 1315	0	ASP A	90 138.296	-3.540	6.232 1.00 0.00
ATOM 1316	СВ	ASP A	90 139.940	-4.160	3.977 1.00 0.00
ATOM 1317	CG	ASP A	90 140.365	-5.614	3.896 1.00 0.00
ATOM 1318	OD1	ASP A	90 139.547	-6.492	4.244 1.00 0.00
ATOM 1319	OD2	ASP A	90 141.516	-5.873	3.485 1.00 0.00
ATOM 1320	H	ASP A	90 138.570	-1.902	3.563 1.00 0.00
ATOM 1321	HA	ASP A	90 138.023	-4.769	3.245 1.00 0.00
ATOM 1322	1HB	ASP A	90 140.410	-3.622	3.168 1.00 0.00
ATOM 1323	2HB	ASP A	90 140.279	-3.756	4.919 1.00 0.00
ATOM 1324	N	SER A	91 136.695	-4.850	5.346 1.00 0.00
ATOM 1325	CA	SER A	91 135.997	-5.042	6.613 1.00 0.00
ATOM 1326	С	SER A	91 136.378	-6.376	7.247 1.00 0.00
ATOM 1327	0	SER A	91 135.575	-6.993	7.947 1.00 0.00
ATOM 1328	СВ	SER A	91 134.485	-4.978	6.401 1.00 0.00
ATOM 1329	OG	SER A	91 133.828	-4.483	7.554 1.00 0.00
ATOM 1330	Н	SER A	91 136.343	3 -5.278	4.537 1.00 0.00
ATOM 1331	HA	SER A	91 136.293	3 -4.243	7.277 1.00 0.00
ATOM 1332	1HB	SER A	91 134.267	7 -4.326	5.569 1.00 0.00
ATOM 1333	2HE	SER A	91 134.112	2 -5.970	6.187 1.00 0.00
ATOM 1334	. HG	SER A	91 133.100	-5.065	7.784 1.00 0.00
ATOM 1335	5 N	ARG A	92 137.608	8 -6.815	6.999 1.00 0.00
ATOM 1336	6 CA	ARG A	92 138.09	3 -8.076	7.546 1.00 0.00

ATOM 1	337	С	ARG	A	92	138.	164	-8.	018	9.069	1.00	0.00	
ATOM 1	1338	0	ARG	A	92	137.	993	-9.	030	9.748	1.00	0.00	
ATOM 3	1339	CB	ARG	A	92	139.	471	-8.	409	6.972	1.00	0.00	
ATOM :	1340	CG	ARG	A	92	139.	416	-9.	230	5.695	1.00	0.00	
ATOM :	1341	CD	ARG	A	92	139.	022	-10.	671	5.976	1.00	0.00	
ATOM	1342	NE	ARG	A	92	137.	589	-10.	891	5.797	1.00	0.00	
MOTA	1343	CZ	ARG	A	92	137.	005	-11.	048	4.612	1.00	0.00	
ATOM	1344	NH1	ARG	A	92	137.	727	-11.	011	3.498	1.00	0.00	
ATOM	1345	NH2	ARG	A	92	135.	696	-11.	243	4.538	1.00	0.00	
ATOM	1346	Н	ARG	A	92	138.	202	-6.	278	6.434	1.00	0.00	
ATOM	1347	HA	ARG	A	92	137.	398	-8.	. 851	7.260	1.00	0.00	
ATOM	1348	1HB	ARG	A	92	139.	992	-7	. 486	6.760	1.00	0.00	
ATOM	1349	2HB	ARG	A	92	140.	030	-8	. 966	7.709	1.00	0.00	
ATOM	1350	1HG	ARG	A	92	138	. 688	-8	. 792	5.028	3 1.00	0.00	
ATOM	1351	2HG	ARG	A	92	140	. 390	-9	. 216	5.227	1.00	0.00	
ATOM	1352	1HD	ARC	A	92	139	. 562	-11	. 318	5.300	1.00	0.00	
ATOM	1353	2HD	ARC	3 A	92	139	. 290	-10	. 912	6.994	1.00	0.00	
MOTA	1354	HE	ARC	3 A	92	137	. 032	-10	. 923	6.603	3 1.00	0.00	
ATOM	1355	1HH	L ARC	3 A	92	138	. 714	-10	. 864	3.54	6 1.00	0.00	
ATOM	1356	2HH	L ARG	G A	92	2 137	. 282	-11	. 130	2.61	1 1.0	0.00	
ATOM	1357	1HH	2 ARG	G A	92	2 135	. 147	-11	. 273	5.37	4 1.0	0.00	
ATOM	1358	2HH	2 AR	G A	92	2 135	. 256	-1]	1.362	3.64	8 1.0	0.00	
ATOM	1359	N	PH	ΕA	93	3 138	3.419	-(6.825	9.59	9 1.0	0.00	
ATOM	1360	CA	PH	ΕA	9:	3 138	3.513	3 -(6.636	11.04	2 1.0	0.00	ŀ
MOTA	1361	С	PH	ΕA	9:	3 137	7. 293	3 -	5.889	11.57	4 1.0	0.00)
ATOM	1362	0	PH	ΕA	9	3 137	7.385	5 -!	5.153	12.55	7 1.0	0.00)
ATOM	1363	СВ	PH	ΕA	. 9	3 139	9.788	3 -	5.868	11.39	3 1.0	0.00)
ATOM	1364	CG	PH	E A	. 9	3 14	1.045	5 -	6.662	11.17	9 1.0	0.00)
ATOM	1365	CD1	PH	Œ A	. 9	3 14	1.370) –	7.144	9.92	1 1.0	0.00)

12.236 1.00 0.00 93 141.902 -6.927PHE A CD2 ATOM 1366 9.721 1.00 0.00 93 142.526 -7.875PHE A CE1 ATOM 1367 12.041 1.00 0.00 93 143.059 -7.658CE2 PHE A ATOM 1368 10.782 1.00 0.00 93 143.371 -8.132PHE A ATOM 1369 CZ9.006 1.00 0.00 PHE A -6.05693 138.546 ATOM 1370 H 11.502 1.00 0.00 -7.611PHE A 93 138.552 ATOM 1371 HA 10.780 1.00 0.00 93 139.848 -4.982PHE A 1HB ATOM 1372 12.433 1.00 0.00 -5.57893 139.751 PHE A ATOM 1373 2HB 9.090 1.00 0.00 -6.94393 140.710 PHE A ATOM 1374 HD1 13.220 1.00 0.00 -6.55793 141.658 PHE A ATOM 1375 HD28.735 1.00 0.00 -8.24693 142.768 PHE A ATOM 1376 HE1 12.873 1.00 0.00 -7.85793 143.718 ATOM 1377 HE2 PHE A 10.629 1.00 0.00 -8.70493 144.275 ATOM 1378 HZPHE A 10.920 1.00 0.00 -6.08494 136.153 ATOM 1379 N ALA A -5.42911.329 1.00 0.00 94 134.917 ATOM 1380 CA ALA A 12.766 1.00 0.00 94 134.552 -5.791 ATOM 1381 C ALA A 13.099 1.00 0.00 94 134.390 -6.965ATOM 1382 0 ALA A 10.384 1.00 0.00 -5.80394 133.784 CB ALA A ATOM 1383 10.143 1.00 0.00 -6.682ATOM 1384 ALA A 94 136.142 Η 11.267 1.00 0.00 -4.36194 135.069 ATOM 1385 HA ALA A 9.802 1.00 0.00 ALA A 94 134.071 -6.665ATOM 1386 1HB 9.722 1.00 0.00 -4.97494 133.579 ATOM 1387 2HB ALA A 10.956 1.00 0.00 ALA A 94 132.897 -6.034ATOM 1388 3HB13.614 1.00 0.00 SER A 95 134.426 -4.775ATOM 1389 N 15.014 1.00 0.00 SER A 95 134.082 -4.987ATOM 1390 CA 15.290 1.00 0.00 C SER A 95 132.642 -4.567ATOM 1391 14.596 1.00 0.00 95 132.089 -3.7140 SER A ATOM 1392 15.920 1.00 0.00 95 135.036 -4.205ATOM 1393 SER A CB 16.300 1.00 0.00 95 136.145 -5.000OG SER A ATOM 1394

13.289 1.00 0.00 95 134.568 -3.861ATOM 1395 H SER A 15.225 1.00 0.00 ATOM 1396 HA SER A 95 134.184 -6.04115.392 1.00 0.00 -3.335ATOM 1397 SER A 95 135.397 1HB 16.809 1.00 0.00 95 134.509 -3.893ATOM 1398 2HB SER A 15.533 1.00 0.00 ATOM 1399 -5.467HG SER A 95 136.483 16.308 1.00 0.00 LEU A -5.17296 132.039 ATOM 1400 N 16.676 1.00 0.00 LEU A -4.861ATOM 1401 CA 96 130.663 96 130.285 -5.53317.992 1.00 0.00 C LEU A ATOM 1402 -6.71818.023 1.00 0.00 96 129.953 ATOM 1403 0 LEU A 15.570 1.00 0.00 -5.30796 129.704 ATOM 1404 CB LEU A -4.39515.355 1.00 0.00 96 128.495 CG LEU A ATOM 1405 13.984 1.00 0.00 -4.63696 127.882 LEU A ATOM 1406 CD1 16.450 1.00 0.00 -4.613LEU A 96 127.462 CD2 ATOM 1407 16.825 1.00 0.00 -5.84596 132.531 H LEU A ATOM 1408 16.797 1.00 0.00 -3.79296 130.586 ATOM 1409 HA LEU A 14.644 1.00 0.00 -5.361 ATOM 1410 1HB LEU A 96 130.258 15.812 1.00 0.00 96 129.341 -6.2952HB LEU A ATOM 1411 -3.36415.399 1.00 0.00 96 128.817 LEU A ATOM 1412 HG 13.328 1.00 0.00 -5.0661HD1 LEU A 96 128.625 ATOM 1413 13.573 1.00 0.00 -3.6982HD1 LEU A 96 127.538 ATOM 1414 14.077 1.00 0.00 -5.31596 127.048 ATOM 1415 3HD1 LEU A 16.431 1.00 0.00 96 127.130 -5.6411HD2 LEU A ATOM 1416 16.283 1.00 0.00 -3.960ATOM 1417 2HD2 LEU A 96 126.618 17.410 1.00 0.00 -4.395ATOM 1418 3HD2 LEU A 96 127.903 19.079 1.00 0.00 ATOM 1419 N GLN A 97 130.339 -4.76920.398 1.00 0.00 -5.290ATOM 1420 CA GLN A 97 130.002 20.781 1.00 0.00 -6.442ATOM 1421 C GLN A 97 130.929 19.925 1.00 0.00 -7.024GLN A 97 131.595 ATOM 1422 0 20.427 1.00 0.00 97 128.547 -5.759 CB GLN A ATOM 1423

ATOM :	1424	CG	GLN A	97	127.566	-4.676	20.847 1.00 0.00
ATOM	1425	CD	GLN A	97	126.204	-4.841	20.203 1.00 0.00
ATOM	1426	OE1	GLN A	97	126.054	-4.681	18.992 1.00 0.00
ATOM	1427	NE2	GLN A	97	125.201	-5.162	21.013 1.00 0.00
ATOM	1428	H	GLN A	97	130.611	-3.831	18.990 1.00 0.00
ATOM	1429	HA	GLN A	97	130.127	-4.490	21.112 1.00 0.00
ATOM	1430	1HB	GLN A	97	128.271	-6.100	19.441 1.00 0.00
ATOM	1431	2HB	GLN A	97	128.459	-6.583	21.121 1.00 0.00
MOTA	1432	1HG	GLN A	97	127.447	-4.713	21.920 1.00 0.00
ATOM	1433	2HG	GLN A	97	127.970	-3.714	20.564 1.00 0.00
ATOM	1434	1HE2	GLN A	97	125.395	-5.274	21.967 1.00 0.00
ATOM	1435	2HE2	GLN A	97	124.310	-5.275	20.622 1.00 0.00
ATOM	1436	N	PRO A	98	130.983	-6.785	22.080 1.00 0.00
ATOM	1437	CA	PRO A	98	131.833	-7.874	22.573 1.00 0.00
MOTA	1438	С	PRO A	98	3 131.336	-9.245	22.127 1.00 0.00
ATOM	1439	0	PRO A	98	3 130.179	-9.599	22.350 1.00 0.00
ATOM	1440	CB	PRO A	98	3 131.737	-7.739	24.095 1.00 0.00
ATOM	1441	CG	PRO A	98	3 130.430	-7.067	24.333 1.00 0.00
ATOM	1442	CD	PRO A	98	3 130.221	-6.142	23.166 1.00 0.00
ATOM	1443	HA	PRO A	98	3 132.859	-7.746	22.261 1.00 0.00
ATOM	1444	1HB	PRO A	98	8 131.767	-8.720	24.548 1.00 0.00
ATOM	1445	2HB	PRO A	. 9	8 132.560	-7.142	24.459 1.00 0.00
ATOM	1446	1HG	PRO A	9	8 129.641	-7.804	24.375 1.00 0.00
ATOM	1447	2HG	PRO A	9	8 130.469	-6.504	25.254 1.00 0.00
ATOM	1448	1HD	PRO A	9	8 129.171	-6.080	22.917 1.00 0.00
ATOM	I 1449	2HD	PRO A	9	8 130.617	-5.162	23.386 1.00 0.00
ATOM	I 1450	N	SER A	9	9 132.218	-10.012	21.495 1.00 0.00
ATOM	M 1451	CA	SER A	A 9	9 131.868	-11.344	21.017 1.00 0.00
ATON	M 1452	c C	SER A	A 9	9 132.957	-12.352	21.371 1.00 0.00

ATOM 1453 0	SER A 99 1	.32.687 -13.383	21.987 1.00 0.00
ATOM 1454 CB	SER A 99 J	31.648 -11.324	19.503 1.00 0.00
ATOM 1455 OG	SER A 99 1	132.444 -10.328	18.884 1.00 0.00
ATOM 1456 H	SER A 99	133.126 -9.673	21.346 1.00 0.00
ATOM 1457 HA	SER A 99	130.950 -11.639	21.502 1.00 0.00
ATOM 1458 1HB	SER A 99	131.914 -12.287	19.091 1.00 0.00
ATOM 1459 2HB	SER A 99	130.608 -11.119	19.296 1.00 0.00
ATOM 1460 HG	SER A 99	131.881 -9.611	18.582 1.00 0.00
ATOM 1461 N	GLY A 100	134.190 -12.047	20.978 1.00 0.00
ATOM 1462 CA	GLY A 100	135.300 -12.936	21.263 1.00 0.00
ATOM 1463 C	GLY A 100	135.839 -12.759	22.670 1.00 0.00
ATOM 1464 O	GLY A 100	135.168 -12.182	23.525 1.00 0.00
ATOM 1465 H	GLY A 100	134.346 -11.212	20.491 1.00 0.00
ATOM 1466 1HA	GLY A 100	134.970 -13.957	21.141 1.00 0.00
ATOM 1467 2HA	GLY A 100	136.095 -12.740	20.557 1.00 0.00
ATOM 1468 N	PRO A 101	137.062 -13.248	22.942 1.00 0.00
ATOM 1469 CA	PRO A 101	137.680 -13.133	24.267 1.00 0.00
ATOM 1470 C	PRO A 101	138.074 -11.697	24.600 1.00 0.00
ATOM 1471 O	PRO A 101	137.812 -11.210	25.698 1.00 0.00
ATOM 1472 CB	PRO A 101	138.926 -14.015	24.156 1.00 0.00
ATOM 1473 CG	PRO A 101	139.252 -14.029	22.703 1.00 0.00
ATOM 1474 CD	PRO A 101	137.934 -13.949	21.982 1.00 0.00
ATOM 1475 HA	PRO A 101	137.032 -13.516	25.041 1.00 0.00
ATOM 1476 1H	B PRO A 101	139.728 -13.586	24.738 1.00 0.00
ATOM 1477 2H	B PRO A 101	138.701 -15.007	24.519 1.00 0.00
ATOM 1478 1H	G PRO A 101	139.867 -13.176	22.456 1.00 0.00
ATOM 1479 2H	G PRO A 101	139.762 -14.947	7 22.450 1.00 0.00
ATOM 1480 1H	D PRO A 101	138.037 -13.382	2 21.069 1.00 0.00
ATOM 1481 2H	D PRO A 101	137.558 -14.940	21.773 1.00 0.00

ATOM 1482 N	SER A 102 138.704 -11.024 23.642	1.00 0.00
ATOM 1483 CA	SER A 102 139.133 -9.644 23.833	1.00 0.00
ATOM 1484 C	SER A 102 139.033 -8.858 22.530	1.00 0.00
ATOM 1485 0	SER A 102 140.038 -8.608 21.865	1.00 0.00
ATOM 1486 CB	SER A 102 140.569 -9.602 24.359	1.00 0.00
ATOM 1487 OG	SER A 102 140.652 -10.160 25.659	1.00 0.00
ATOM 1488 H	SER A 102 138.885 -11.467 22.786	1.00 0.00
ATOM 1489 HA	SER A 102 138.479 -9.192 24.564	1.00 0.00
ATOM 1490 1HB	SER A 102 141.209 -10.168 23.699	1.00 0.00
ATOM 1491 2HB	SER A 102 140.907 -8.577 24.398	3 1.00 0.00
ATOM 1492 HG	SER A 102 140.083 -9.667 26.256	3 1.00 0.00
ATOM 1493 N	SER A 103 137.813 -8.469 22.171	1.00 0.00
ATOM 1494 CA	SER A 103 137.575 -7.710 20.947	7 1.00 0.00
ATOM 1495 C	SER A 103 137.853 -8.562 19.712	2 1.00 0.00
ATOM 1496 0	SER A 103 136.932 -8.955 18.997	7 1.00 0.00
ATOM 1497 CB	SER A 103 138.444 -6.450 20.923	1 1.00 0.00
ATOM 1498 OG	SER A 103 137.703 -5.328 20.47	2 1.00 0.00
ATOM 1499 H	SER A 103 137.051 -8.699 22.74	4 1.00 0.00
ATOM 1500 HA	SER A 103 136.535 -7.417 20.93	8 1.00 0.00
ATOM 1501 1HE	B SER A 103 138.809 -6.246 21.91	7 1.00 0.00
ATOM 1502 2HE	B SER A 103 139.280 -6.603 20.25	6 1.00 0.00
ATOM 1503 HG	SER A 103 137.240 -5.554 19.66	2 1.00 0.00
ATOM 1504 N	GLY A 104 139.130 -8.843 19.46	8 1.00 0.00
ATOM 1505 CA	GLY A 104 139.505 -9.647 18.31	9 1.00 0.00
ATOM 1506 C	GLY A 104 140.109 -8.818 17.20	5 1.00 0.00
ATOM 1507 O	GLY A 104 141.142 -8.158 17.44	18 1.00 0.00
ATOM 1508 OX	T GLY A 104 139.552 -8.828 16.08	37 1.00 0.00
ATOM 1509 H	GLY A 104 139.822 -8.504 20.07	73 1.00 0.00
ATOM 1510 1H	IA GLY A 104 140.225 -10.388 18.63	33 1.00 0.00

ATOM 1511 2HA GLY A 104 138.626 -10.150 17.943 1.00 0.00 TER 1512 GLY A 104 ENDMDL

[0100]

立体構造座標表3

ATOM 1	N	GLY A	1 125.212	27.334	-8.433 1.00 0.00
ATOM 2	CA	GLY A	1 126.127	26.226	-8.041 1.00 0.00
ATOM 3	С	GLY A	1 126.734	25.523	-9.238 1.00 0.00
ATOM 4	0	GLY A	1 126.538	24.322	-9.426 1.00 0.00
ATOM 5	1H	GLY A	1 125.466	27.688	-9.377 1.00 0.00
ATOM 6	2H	GLY A	1 125.283	28.114	-7.751 1.00 0.00
ATOM 7	3H	GLY A	1 124.229	26.994	-8.455 1.00 0.00
ATOM 8	1HA	GLY A	1 126.923	26.630	-7.432 1.00 0.00
ATOM 9	2HA	GLY A	1 125.572	25.506	-7.457 1.00 0.00
ATOM 10	N	SER A	2 127.472	26.272	-10.049 1.00 0.00
ATOM 11	CA	SER A	2 128.110	25.713	-11.236 1.00 0.00
ATOM 12	С	SER A	2 129.203	24.723	-10.851 1.00 0.00
ATOM 13	0	SER A	2 129.120	23.536	-11.169 1.00 0.00
ATOM 14	CB	SER A	2 128.700	26.831	-12.098 1.00 0.00
ATOM 15	OG	SER A	2 127.762	27.284	-13.059 1.00 0.00
ATOM 16	Н	SER A	2 127.592	27.223	-9.846 1.00 0.00
ATOM 17	HA	SER A	2 127.354	25.193	-11.805 1.00 0.00
ATOM 18	1HB	SER A	2 128.978	27.662	-11.466 1.00 0.00
ATOM 19	2HB	SER A	2 129.575	26.461	-12.613 1.00 0.00
ATOM 20	HG	SER A	2 127.770	28.243	-13.087 1.00 0.00
ATOM 21	N	SER A	3 130.228	25.217	-10.164 1.00 0.00
ATOM 22	CA	SER A	3 131.338	24.374	-9.734 1.00 0.00
ATOM 23	С	SER A	3 130.855	23.274	-8.795 1.00 0.00

ATOM 24	0	SER A	3 130.082	23.528 -	7.871 1.00 0.00
ATOM 25	CB	SER A	3 132.408	25.220 -	9.040 1.00 0.00
ATOM 26	OG	SER A	3 132.727	26.369 -	9.806 1.00 0.00
ATOM 27	H	SER A	3 130.237	26.171 -	-9.939 1.00 0.00
ATOM 28	HA	SER A	3 131.767	23.918 -	10.613 1.00 0.00
ATOM 29	1HB	SER A	3 132.043	25.537	-8.075 1.00 0.00
ATOM 30	2HB	SER A	3 133.302	24.629	-8.910 1.00 0.00
ATOM 31	HG	SER A	3 132.091	27.063	-9.621 1.00 0.00
ATOM 32	N	GLY A	4 131.315	22.051	-9.038 1.00 0.00
ATOM 33	CA	GLY A	4 130.919	20.931	-8.206 1.00 0.00
ATOM 34	C	GLY A	4 130.532	19.711	-9.020 1.00 0.00
ATOM 35	0	GLY A	4 129.678	19.791	-9.902 1.00 0.00
ATOM 36	H	GLY A	4 131.929	21.908	-9.789 1.00 0.00
ATOM 37	1HA	GLY A	4 131.742	20.670	-7.557 1.00 0.00
ATOM 38	2HA	GLY A	4 130.076	21.227	-7.599 1.00 0.00
ATOM 39	N	SER A	5 131.165	18.580	-8.724 1.00 0.00
ATOM 40	CA	SER A	5 130.883	17.339	-9.436 1.00 0.00
ATOM 41	С	SER A	5 129.775	16.553	-8.741 1.00 0.00
ATOM 42	0	SER A	5 129.529	16.730	-7.548 1.00 0.00
ATOM 43	CB	SER A	5 132.147	16.483	-9.532 1.00 0.00
ATOM 44	OG	SER A	5 132.417	15.830	-8.304 1.00 0.00
ATOM 45	Н	SER A	5 131.837	7 18.580	-8.011 1.00 0.00
ATOM 46	HA	SER A	5 130.555	5 17.595	-10.432 1.00 0.00
ATOM 47	1HE	SER A	5 132.01	5 15.736	-10.300 1.00 0.00
ATOM 48	2HI	SER A	5 132.98	7 17.113	-9.784 1.00 0.00
ATOM 49	HG	SER A	5 132.76	2 14.951	-8.477 1.00 0.00
ATOM 50	N	SER A	6 129.10	9 15.685	-9.496 1.00 0.00
ATOM 51	CA	SER A	6 128.02	8 14.872	-8.952 1.00 0.00
ATOM 52	С	SER A	6 128.57	9 13.712	-8.129 1.00 0.00

ATOM 53	0	SER A	6 129.231	12.814 -	8.662 1	.00 0.00
ATOM 54	CB	SER A	6 127.146	14.337 -1	0.081 1	.00 0.00
ATOM 55	OG	SER A	6 126.755	15.378 -1	0.960 1	.00 0.00
ATOM 56	H	SER A	6 129.352	15.588 -1	0.440 1	.00 0.00
ATOM 57	HA	SER A	6 127.431	15.502 -	-8.309 1	00 0.00
ATOM 58	1HB	SER A	6 127.695	13.597 -1	0.644 1	1.00 0.00
ATOM 59	2HB	SER A	6 126.260	13.885	-9.661 1	1.00 0.00
ATOM 60	HG	SER A	6 127.535	15.778 -	11.351	1.00 0.00
ATOM 61	N	GLY A	7 128.313	13.737	-6.827	1.00 0.00
ATOM 62	CA	GLY A	7 128.790	12.683	-5.952	1.00 0.00
ATOM 63	C	GLY A	7 127.664	11.816	-5.421	1.00 0.00
ATOM 64	0	GLY A	7 127.124	12.079	-4.346	1.00 0.00
ATOM 65	H	GLY A	7 127.788	14.478	-6.458	1.00 0.00
ATOM 66	1HA	GLY A	7 129.481	12.060	-6.499	1.00 0.00
ATOM 67	2HA	GLY A	7 129.308	13.130	-5.116	1.00 0.00
ATOM 68	N	LEU A	8 127.309	10.783	-6.177	1.00 0.00
ATOM 69	CA	LEU A	8 126.240	9.875	-5.777	1.00 0.00
ATOM 70	C	LEU A	8 126.566	9.201	-4.447	1.00 0.00
ATOM 71	0	LEU A	8 125.679	8.948	-3.633	1.00 0.00
ATOM 72	СВ	LEU A	8 126.012	8.815	-6.857	1.00 0.00
ATOM 73	CG	LEU A	8 125.799	9.364	-8.267	1.00 0.00
ATOM 74	CD1	LEU A	8 126.357	8.401	-9.305	1.00 0.00
ATOM 75	CD2	LEU A	8 124.323	9.626	-8.520	1.00 0.00
ATOM 76	H	LEU A	8 127.778	10.626	-7.023	1.00 0.00
ATOM 77	HA	LEU A	8 125.338	10.456	-5.659	1.00 0.00
ATOM 78	1HE	B LEU A	8 126.869	8.158	-6.872	1.00 0.00
ATOM 79	2HF	B LEU A	8 125.141	8.237	-6.585	1.00 0.00
ATOM 80	HG	LEU A	8 126.328	3 10.302	-8.366	1.00 0.00
ATOM 81	1HI	O1 LEU A	8 125.688	7.560	-9.412	1.00 0.00

ATOM 82	2HD1 LEU A	8 127.328	8.051 -	-8.985 1	.00 0.00
ATOM 83	3HD1 LEU A	8 126.453	8.909 -	10.253 1	.00 0.00
ATOM 84	1HD2 LEU A	8 124.119	9.548	-9.578 1	.00 0.00
ATOM 85	2HD2 LEU A	8 124.069	10.618	-8.177 1	.00 0.00
ATOM 86	3HD2 LEU A	8 123.731	8.897	-7.986 1	.00 0.00
ATOM 87	N ALA A	9 127.846	8.913	-4.236 1	.00 0.00
ATOM 88	CA ALA A	9 128.291	8.269	-3.007 1	.00 0.00
ATOM 89	C ALA A	9 129.810	8.310	-2.884 1	.00 0.00
ATOM 90	O ALA A	9 130.425	7.393	-2.339 1	.00 0.00
ATOM 91	CB ALA A	9 127.794	6.833	-2.955 1	1.00 0.00
ATOM 92	H ALA A	9 128.507	9.141	-4.924 3	1.00 0.00
ATOM 93	HA ALA A	9 127.858	8.805	-2.175	1.00 0.00
ATOM 94	1HB ALA A	9 128.506	6.225	-2.415	1.00 0.00
ATOM 95	2HB ALA A	9 127.686	6.452	-3.960	1.00 0.00
ATOM 96	3HB ALA A	9 126.839	6.800	-2.452	1.00 0.00
ATOM 97	N MET A	10 130.412	9.381	-3.394	1.00 0.00
ATOM 98	CA MET A	10 131.861	9.542	-3.341	1.00 0.00
ATOM 99	C MET	10 132.281	10.879	-3.949	1.00 0.00
ATOM 100	O MET	10 132.849	10.924	-5.041	1.00 0.00
ATOM 101	CB MET	A 10 132.550	8.392	-4.080	1.00 0.00
ATOM 102	CG MET	A 10 131.913	8.058	-5.419	1.00 0.00
ATOM 103	SD MET	A 10 132.616	6.579	-6.173	1.00 0.00
ATOM 104	CE MET	A 10 132.892	7.152	-7.847	1.00 0.00
ATOM 105	H MET	A 10 129.868	10.079	-3.816	1.00 0.00
ATOM 106	HA MET	A 10 132.159	9.522	-2.304	1.00 0.00
ATOM 107	1HB MET	A 10 133.582	8.658	-4.253	1.00 0.00
ATOM 108	2HB MET	A 10 132.515	7.509	-3.459	1.00 0.00
ATOM 109	1HG MET	A 10 130.855	7.900	-5.270	1.00 0.00
ATOM 110	2HG MET	A 10 132.060	8.892	-6.089	1.00 0.00

ATOM 111	1HE	MET A	10 133.578	7.985	-7.834 1.00 0.00
ATOM 112	2HE	MET A	10 131.954	7.464	-8.281 1.00 0.00
ATOM 113	3HE	MET A	10 133.312	6.350	-8.437 1.00 0.00
ATOM 114	N	PRO A	11 132.008	11.991	-3.245 1.00 0.00
ATOM 115	CA	PRO A	11 132.361	13.332	-3.719 1.00 0.00
ATOM 116	С	PRO A	11 133.857	13.483	-3.993 1.00 0.00
ATOM 117	0	PRO A	11 134.251	14.000	-5.038 1.00 0.00
ATOM 118	СВ	PRO A	11 131.929	14.253	-2.573 1.00 0.00
ATOM 119	CG	PRO A	11 130.928	13.466	-1.798 1.00 0.00
ATOM 120	CD	PRO A	11 131.334	12.027	-1.935 1.00 0.00
ATOM 121	HA	PRO A	11 131.811	13.588	-4.613 1.00 0.00
ATOM 122	1HB	PRO A	11 132.788	14.507	-1.969 1.00 0.00
ATOM 123	2HB	PRO A	11 131.492	15. 154	-2.979 1.00 0.00
ATOM 124	1HG	PRO A	11 130.950	13.764	-0.761 1.00 0.00
ATOM 125	2HG	PRO A	11 129.942	13.618	-2.212 1.00 0.00
ATOM 126	1HD	PRO A	11 132.014	11.749	-1.144 1.00 0.00
ATOM 127	2HD	PRO A	11 130.465	11.386	-1.931 1.00 0.00
ATOM 128	N	PRO A	12 134.718	13.035	-3.058 1.00 0.00
ATOM 129	CA	PRO A	12 136.168	13. 131	-3.217 1.00 0.00
ATOM 130	С	PRO A	12 136.731	12.015	-4.090 1.00 0.00
ATOM 131	0	PRO A	12 137.651	12.234	-4.879 1.00 0.00
ATOM 132	СВ	PRO A	12 136.677	12.999	-1.785 1.00 0.00
ATOM 133	CG	PRO A	12 135.676	12.124	-1.112 1.00 0.00
ATOM 134	CD	PRO A	12 134.349	12.402	-1.774 1.00 0.00
ATOM 135	HA	PRO A	12 136.461	14.089	-3.621 1.00 0.00
ATOM 136	1HI	B PRO A	12 137.659	12.549	-1.788 1.00 0.00
ATOM 137	2H	B PRO A	12 136.720	13.974	4 -1.323 1.00 0.00
ATOM 138	1H	G PRO A	12 135.949	9 11.08	7 -1.246 1.00 0.00
ATOM 139	2H	G PRO A	12 135.62	7 12.36	5 -0.061 1.00 0.00

ATOM 140	1HD	PRO A	12	133.815	11.479	-1.940 1.00 0.00
ATOM 141	2HD	PRO A	12	133.761	13.074	-1.167 1.00 0.00
ATOM 142	N	GLY A	13	136.173	10.818	-3.944 1.00 0.00
ATOM 143	CA	GLY A	13	136.632	9.684	-4.726 1.00 0.00
ATOM 144	С	GLY A	13	136.975	8.487	-3.862 1.00 0.00
ATOM 145	0	GLY A	13	137.982	7.818	-4.091 1.00 0.00
ATOM 146	H	GLY A	13	135.443	10.703	-3.300 1.00 0.00
ATOM 147	1HA	GLY A	13	135.855	9.402	-5.421 1.00 0.00
ATOM 148	2HA	GLY A	13	3 137.510	9.976	-5.283 1.00 0.00
ATOM 149	N	ASN A	14	1 136.136	8.216	-2.867 1.00 0.00
ATOM 150	CA	ASN A	14	136.356	7.092	-1.966 1.00 0.00
ATOM 151	С	ASN A	14	4 135.123	6.196	-1.901 1.00 0.00
ATOM 152	0	ASN A	. 1	4 133.991	6.673	-1.989 1.00 0.00
ATOM 153	CB	ASN A	. 1	4 136.708	7.595	-0.565 1.00 0.00
ATOM 154	CG	ASN A	1	4 138.013	8.366	-0.540 1.00 0.00
ATOM 155	OD1	. ASN A	1	4 138.027	9.590	-0.676 1.00 0.00
ATOM 156	ND2	ASN A	A]	4 139.119	7.653	3 -0.365 1.00 0.00
ATOM 157	Н	ASN A	A]	14 135.350	8.78	7 -2.737 1.00 0.00
ATOM 158	HA	ASN	A :	14 137.18	6.51	5 -2.350 1.00 0.00
ATOM 159	1H	B ASN	A :	14 135.92	0 8.24	5 -0.214 1.00 0.00
ATOM 160	2H	B ASN	A	14 136.79	7 6.75	1 0.102 1.00 0.00
ATOM 161	1H	D2 ASN	A	14 139.03	2 6.68	2 -0.263 1.00 0.00
ATOM 162	2H	D2 ASN	A	14 139.97	7 8.12	-0.344 1.00 0.00
ATOM 163	8 N	SER	A	15 135.34	9 4.89	96 -1.747 1.00 0.00
ATOM 164	L CA	SER	A	15 134.25	3.93	33 -1.670 1.00 0.00
ATOM 165	5 C	SER	A	15 133.35	51 4.23	34 -0.480 1.00 0.00
ATOM 166	6 0	SER	A	15 132.12	25 4.1	83 -0.592 1.00 0.00
ATOM 16	7 C	B SER	. A	15 134.80	08 2.5	11 -1.559 1.00 0.00
ATOM 16	8 0	G SER	A	15 133.7	62 1.5	69 -1.395 1.00 0.00

ATOM 169	Н	SER A	15	136.274	4.576	-1.683 1.00 0.00
ATOM 170	HA	SER A	15	133.678	4.015	-2.578 1.00 0.00
ATOM 171	1HB	SER A	15	135.357	2.269	-2.456 1.00 0.00
ATOM 172	2HB	SER A	15	135.469	2.450	-0.705 1.00 0.00
ATOM 173	HG	SER A	15	133.843	0.882	-2.061 1.00 0.00
ATOM 174	N	HIS A	16	133.961	4.548	0.657 1.00 0.00
ATOM 175	CA	HIS A	16	133.209	4.857	1.868 1.00 0.00
ATOM 176	С	HIS A	16	134.054	5.675	2.839 1.00 0.00
ATOM 177	0	HIS A	16	133.627	6.726	3.317 1.00 0.00
ATOM 178	CB	HIS A	16	132.738	3.568	2.544 1.00 0.00
ATOM 179	CG	HIS A	16	131.347	3.167	2.163 1.00 0.00
ATOM 180	ND1	HIS A	16	130.235	3.926	2.465 1.00 0.00
ATOM 181	CD2	HIS A	16	130.889	2.079	1.500 1.00 0.00
ATOM 182	CE1	HIS A	16	129.154	3.321	2.004 1.00 0.00
ATOM 183	NE2	HIS A	16	5 129.523	2.200	1.414 1.00 0.00
ATOM 184	Н	HIS A	16	34.940	4.572	0.684 1.00 0.00
ATOM 185	HA	HIS A	16	6 132.346	5.439	1.582 1.00 0.00
ATOM 186	1HB	HIS A	1	6 133.402	2.762	2.269 1.00 0.00
ATOM 187	2HB	HIS A	1	6 132.765	3.700	3.616 1.00 0.00
ATOM .188	HD1	HIS A	1	6 130.238	4.780	2.945 1.00 0.00
ATOM 189	HD2	2 HIS A	1	6 131.487	1.267	1.110 1.00 0.00
ATOM 190) HE	ı HIS A	. 1	6 128.141	3.684	2.094 1.00 0.00
ATOM 191	HE2	2 HIS A	. 1	6 128.912	1.519	1.063 1.00 0.00
ATOM 192	2 N	GLY A	. I	17 135.256	5.18	7 3.127 1.00 0.00
ATOM 193	3 CA	GLY A	1	17 136.143	5.88	4 4.039 1.00 0.00
ATOM 194	4 C	GLY A	A :	17 137.538	5.29	4 4.059 1.00 0.00
ATOM 19	5 0	GLY A	A	17 138.056	4.94	2 5.119 1.00 0.00
ATOM 19	6 H	GLY A	A	17 135.54	4.34	5 2.716 1.00 0.00
ATOM 19	7 1H	IA GLY	A	17 136.20	6.92	3.740 1.00 0.00

ATOM 198	2HA	GLY A	17 135.728	5.835	5.036 1.00 0.00
ATOM 199	N	LEU A	18 138.149	5.184	2.883 1.00 0.00
ATOM 200	CA	LEU A	18 139.492	4.631	2.770 1.00 0.00
ATOM 201	С	LEU A	18 140.541	5.657	3.188 1.00 0.00
ATOM 202	0	LEU A	18 140.936	6.512	2.396 1.00 0.00
ATOM 203	CB	LEU A	18 139.758	4.170	1.335 1.00 0.00
ATOM 204	CG	LEU A	18 138.859	3.033	0.845 1.00 0.00
ATOM 205	CD1	LEU A	18 138.767	3.043	-0.673 1.00 0.00
ATOM 206	CD2	LEU A	18 139.378	1.691	1.341 1.00 0.00
ATOM 207	H	LEU A	18 137.684	5.482	2.074 1.00 0.00
ATOM 208	HA	LEU A	18 139.558	3.778	3.429 1.00 0.00
ATOM 209	1HB	LEU A	18 139.624	5.016	0.677 1.00 0.00
ATOM 210	2HB	LEU A	18 140.784	3.841	1.268 1.00 0.00
ATOM 211	HG	LEU A	18 137.863	3.174	1.239 1.00 0.00
ATOM 212	1HD	1 LEU A	18 139.705	3.382	-1.088 1.00 0.00
ATOM 213	2HD	1 LEU A	18 137.975	3.707	-0.982 1.00 0.00
ATOM 214	3HD	1 LEU A	18 138.559	2.043	-1.028 1.00 0.00
ATOM 215	1HD	2 LEU A	18 139.928	1.837	2.260 1.00 0.00
ATOM 216	2HI	2 LEU A	18 140.029	1.260	0.596 1.00 0.00
ATOM 217	3HI)2 LEU A	18 138.546	1.028	1.521 1.00 0.00
ATOM 218	N	GLU A	19 140.986	5.564	4.436 1.00 0.00
ATOM 219	CA	GLU A	A 19 141.989	6.485	4.959 1.00 0.00
ATOM 220	С	GLU A	A 19 143.037	5.739	5.779 1.00 0.00
ATOM 221	0	GLU .	A 19 142.979	4.517	5.913 1.00 0.00
ATOM 222	CB	GLU	A 19 141.325	7.562	5.819 1.00 0.00
ATOM 223	CG	GLU	A 19 140.463	7.001	6.937 1.00 0.00
ATOM 224	CD	GLU	A 19 139.402	7.979	7.402 1.00 0.00
ATOM 225	OE	1 GLU	A 19 139.434	8.369	8.589 1.00 0.00
ATOM 226	OE	2 GLU	A 19 138.54	8.356	6.581 1.00 0.00

ATOM 227	H	GLU A	19 140.633	4.861	5.019 1.00 0.00
ATOM 228	HA	GLU A	19 142.476	6.957	4.119 1.00 0.00
ATOM 229	1HB	GLU A	19 142.094	8.179	6.260 1.00 0.00
ATOM 230	2HB	GLU A	19 140.701	8.176	5.186 1.00 0.00
ATOM 231	1HG	GLU A	19 139.974	6.106	6.584 1.00 0.00
ATOM 232	2HG	GLU A	19 141.098	6.756	7.776 1.00 0.00
ATOM 233	N	VAL A	20 143.994	6.483	6.324 1.00 0.00
ATOM 234	CA	VAL A	20 145.055	5.891	7.131 1.00 0.00
ATOM 235	С	VAL A	20 144.481	5. 136	8.326 1.00 0.00
ATOM 236	0	VAL A	20 143.631	5.653	9.050 1.00 0.00
ATOM 237	CB	VAL A	20 146.037	6.964	7.639 1.00 0.00
ATOM 238	CG1	VAL A	20 147.209	6.320	8.365 1.00 0.00
ATOM 239	CG2	VAL A	20 146.525	7.828	6.485 1.00 0.00
ATOM 240	Н	VAL A	20 143.987	7.452	6.181 1.00 0.00
ATOM 241	HA	VAL A	20 145.601	5.198	6.508 1.00 0.00
ATOM 242	HB	VAL A	20 145.515	7.600	8.339 1.00 0.00
ATOM 243	1HG	1 VAL A	20 148.077	6.958	8.284 1.00 0.00
ATOM 244	2HG	1 VAL A	20 147.425	5.361	7.919 1.00 0.00
ATOM 245	3HG	1 VAL A	20 146.957	6.185	9.406 1.00 0.00
ATOM 246	1HG	2 VAL A	20 145.737	8.499	6.179 1.00 0.00
ATOM 247	2H0	32 VAL A	A 20 146.802	7. 196	5.655 1.00 0.00
ATOM 248	3H0	G2 VAL A	A 20 147.384	8.402	6.803 1.00 0.00
ATOM 249	N	GLY A	A 21 144.950	3.908	8.525 1.00 0.00
ATOM 250	CA	GLY A	A 21 144.472	3.102	9.631 1.00 0.00
ATOM 251	С	GLY .	A 21 143.364	2.152	9.221 1.00 0.00
ATOM 252	0	GLY .	A 21 143.223	1.069	9.789 1.00 0.00
ATOM 253	Н	GLY	A 21 145.627	3.547	7.913 1.00 0.00
ATOM 254	. 1H	A GLY	A 21 145.296	2.526	10.025 1.00 0.00
ATOM 255	5 2H	A GLY	A 21 144.102	3.757	10.406 1.00 0.00

ATOM 256	N	SER A 2	22 142.573	2.559	8.232 1.00 0.00
ATOM 257	CA	SER A	22 141.471	1.736	7.747 1.00 0.00
ATOM 258	С	SER A	22 141.972	0.673	6.775 1.00 0.00
ATOM 259	0	SER A	22 142.811	0.948	5.916 1.00 0.00
ATOM 260	CB	SER A	22 140.417	2.611	7.066 1.00 0.00
ATOM 261	OG	SER A	22 139.648	3.320	8.022 1.00 0.00
ATOM 262	Н	SER A	22 142.735	3.432	7.820 1.00 0.00
ATOM 263	HA	SER A	22 141.024	1.246	8.598 1.00 0.00
ATOM 264	1HB	SER A	22 140.907	3.322	6.417 1.00 0.00
ATOM 265	2HB	SER A	22 139.756	1.986	6.482 1.00 0.00
ATOM 266	HG	SER A	22 140.233	3.756	8.644 1.00 0.00
ATOM 267	N	LEU A	23 141.454	-0.542	6.915 1.00 0.00
ATOM 268	CA	LEU A	23 141.848	-1.647	6.049 1.00 0.00
ATOM 269	С	LEU A	23 141.271	-1.474	4.649 1.00 0.00
ATOM 270	0	LEU A	23 140.212	-0.873	4.474 1.00 0.00
ATOM 271	CB	LEU A	23 141.386	-2.979	6.644 1.00 0.00
ATOM 272	CG	LEU A	23 142.034	-3.354	7.977 1.00 0.00
ATOM 273	CD1	LEU A	23 141.095	-4.216	8.805 1.00 0.00
ATOM 274	CD2	LEU A	23 143.354	-4.074	7.743 1.00 0.00
ATOM 275	Н	LEU A	23 140.789	-0.700	7.620 1.00 0.00
ATOM 276	HA	LEU A	23 142.926	-1.648	5.984 1.00 0.00
ATOM 277	1HE	B LEU A	23 140.316	-2.931	6.788 1.00 0.00
ATOM 278	2HI	B LEU A	23 141.602	-3.761	5.932 1.00 0.00
ATOM 279	HG	LEU A	23 142.239	-2.452	8.537 1.00 0.00
ATOM 280	1HI	O1 LEU A	23 140.088	-3.834	8.720 1.00 0.00
ATOM 281	2H	D1 LEU A	23 141.402	-4.193	9.840 1.00 0.00
ATOM 282	3H	D1 LEU A	23 141.125	-5.232	8.442 1.00 0.00
ATOM 283	1H	D2 LEU A	23 143.989	-3.950	8.607 1.00 0.00
ATOM 284	2H	D2 LEU A	23 143.843	-3.657	6.874 1.00 0.00

ATOM 285	3HD2 I	LEU A	23 143.167	-5.125	7.581 1.00 0.00
ATOM 286	N A	ALA A	24 141.975	-2.007	3.654 1.00 0.00
ATOM 287	CA A	ALA A	24 141.532	-1.911	2.269 1.00 0.00
ATOM 288	C	ALA A	24 142.129	-3.030	1.423 1.00 0.00
ATOM 289	0 .	ALA A	24 142.995	-3.774	1.883 1.00 0.00
ATOM 290	CB .	ALA A	24 141.902	-0.554	1.689 1.00 0.00
ATOM 291	Н	ALA A	24 142.811	-2.474	3.858 1.00 0.00
ATOM 292	HA	ALA A	24 140.455	-1.999	2.256 1.00 0.00
ATOM 293	1HB	ALA A	24 142.966	-0.395	1.797 1.00 0.00
ATOM 294	2HB	ALA A	24 141.367	0.221	2.216 1.00 0.00
ATOM 295	ЗНВ	ALA A	24 141.638	-0.525	0.642 1.00 0.00
ATOM 296	N	GLU A	25 141.660	-3.144	0.185 1.00 0.00
ATOM 297	CA	GLU A	25 142.147	-4.174	-0.726 1.00 0.00
ATOM 298	С	GLU A	25 142.482	-3.580	-2.090 1.00 0.00
ATOM 299	0	GLU A	25 141.969	-2.524	-2.461 1.00 0.00
ATOM 300	CB	GLU A	25 141.105	-5.282	-0.880 1.00 0.00
ATOM 301	CG	GLU A	25 141.622	2 -6.505	-1.622 1.00 0.00
ATOM 302	CD	GLU A	25 140.539	-7.537	-1.869 1.00 0.00
ATOM 303	OE1	GLU A	25 139.448	3 -7.152	-2.336 1.00 0.00
ATOM 304	OE2	GLU A	25 140.78	5 -8.732	-1.597 1.00 0.00
ATOM 305	Н	GLU A	25 140.96	9 -2.522	-0.124 1.00 0.00
ATOM 306	HA	GLU A	25 143.04	7 -4.594	-0.299 1.00 0.00
ATOM 307	1HB	GLU A	25 140.77	8 -5.594	0.100 1.00 0.00
ATOM 308	2HB	GLU A	A 25 140.25	8 -4.890	-1.424 1.00 0.00
ATOM 309	1HG	GLU A	A 25 142.02	2 -6.190	-2.575 1.00 0.00
ATOM 310	2HG	GLU A	A 25 142.40	7 -6.960	-1.035 1.00 0.00
ATOM 311	N	VAL .	A 26 143.34	16 -4.266	-2.833 1.00 0.00
ATOM 312	CA	VAL .	A 26 143.74	19 –3.806	-4.157 1.00 0.00
ATOM 313	3 C	VAL	A 26 143.39	97 -4.834	-5.227 1.00 0.00

ATOM 314	0	VAL A	26 143.403	-6.038	-4.971 1.00 0.00
ATOM 315	CB	VAL A	26 145.261	-3.520	-4.216 1.00 0.00
ATOM 316	CG1	VAL A	26 145.630	-2.857	-5.534 1.00 0.00
ATOM 317	CG2	VAL A	26 145.688	-2.657	-3.038 1.00 0.00
ATOM 318	Н	VAL A	26 143.721	-5.100	-2.482 1.00 0.00
ATOM 319	HA	VAL A	26 143.221	-2.886	-4.366 1.00 0.00
ATOM 320	HB	VAL A	26 145.788	-4.461	-4.153 1.00 0.00
ATOM 321	1HG1	VAL A	26 144.767	-2.343	-5.931 1.00 0.00
ATOM 322	2HG1	VAL A	26 145.957	-3.609	-6.236 1.00 0.00
ATOM 323	3HG1	VAL A	26 146.427	-2.146	-5.370 1.00 0.00
ATOM 324	1HG2	VAL A	26 145.118	-1.739	-3.039 1.00 0.00
ATOM 325	2HG2	VAL A	26 146.740	-2.427	-3.122 1.00 0.00
ATOM 326	3HG2	VAL A	26 145.508	-3.190	-2.117 1.00 0.00
ATOM 327	N	LYS A	27 143.090	-4.350	-6.425 1.00 0.00
ATOM 328	CA	LYS A	27 142.735	-5.226	-7.536 1.00 0.00
ATOM 329	С	LYS A	27 143.971	-5.609	-8.343 1.00 0.00
ATOM 330	0	LYS A	27 144.276	-4.991	-9.362 1.00 0.00
ATOM 331	CB	LYS A	27 141.708	-4.544	-8.443 1.00 0.00
ATOM 332	CG	LYS A	27 140.274	-4.963	-8.160 1.00 0.00
ATOM 333	CD	LYS A	27 139.289	-4.199	-9.032 1.00 0.00
ATOM 334	CE	LYS A	27 138.179	5 -5.101	-9.536 1.00 0.00
ATOM 335	NZ	LYS A	A 27 138.65	3 -6.038	3 -10.591 1.00 0.00
ATOM 336	Н	LYS A	A 27 143.10	3 -3.380	-6.567 1.00 0.00
ATOM 337	HA	LYS A	A 27 142.29	7 -6.123	3 -7.123 1.00 0.00
ATOM 338	1HE	LYS A	A 27 141.78	1 -3.47	-8.309 1.00 0.00
ATOM 339	2HE	B LYS A	A 27 141.93	4 -4.786	6 -9.470 1.00 0.00
ATOM 340	1H(G LYS A	A 27 140.17	1 -6.019	9 -8.360 1.00 0.00
ATOM 341	2H0	G LYS	A 27 140.05	0 -4.76	6 -7.122 1.00 0.00
ATOM 342	1HI	LYS	A 27 138.85	5 –3.39	9 -8.451 1.00 0.00

ATOM	343	2HD·	LYS A	27	139.818	-3.785	-9.879	1.00	0.00
ATOM	344	1HE	LYS A	27	137.790	-5.675	-8.707	1.00	0.00
ATOM	345	2HE	LYS A	27	137.388	-4.486	-9.945	1.00	0.00
ATOM	346	1HZ	LYS A	27	139.312	-5.550	-11.231	1.00	0.00
ATOM	347	2HZ	LYS A	27	137.849	-6.394	-11.145	1.00	0.00
ATOM	348	3HZ	LYS A	27	139.145	-6.845	-10.156	1.00	0.00
ATOM	349	N	GLU A	28	144.679	-6.635	-7.880	1.00	0.00
ATOM	350	CA	GLU A	28	145.883	-7.101	-8.559	1.00	0.00
ATOM	351	C	GLU A	28	145.850	-8.615	-8.743	1.00	0.00
ATOM	352	0	GLU A	28	144.881	-9.276	-8.371	1.00	0.00
ATOM	353	CB	GLU A	28	147.129	-6.694	-7.770	1.00	0.00
MOTA	354	CG	GLU A	28	148.209	-6.054	-8.627	1.00	0.00
ATOM	355	CD	GLU A	28	147.852	-4.643	-9.054	1.00	0.00
ATOM	356	OE1	GLU A	28	147.828	-4.382	-10.276	1.00	0.00
ATOM	357	0E2	GLU A	28	147.598	-3.801	-8.168	1.00	0.00
ATOM	358	H	GLU A	28	144.386	-7.089	-7.063	1.00	0.00
ATOM	359	HA	GLU A	28	145.915	-6.634	-9.532	1.00	0.00
ATOM	360	1HB	GLU A	28	146.842	-5.989	-7.005	1.00	0.00
ATOM	361	2HB	GLU A	28	147.548	-7.573	-7.299	1.00	0.00
ATOM	362	1HG	GLU A	28	149.127	-6.021	-8.060	1.00	0.00
ATOM	363	2HG	GLU A	28	148.355	-6.657	-9.511	1.00	0.00
ATOM	364	N	ASN A	29	146.918	-9.159	-9.319	1.00	0.00
ATOM	365	CA	ASN A	29	147.013	-10.595	-9.551	1.00	0.00
ATOM	366	С	ASN A	29	147.022	-11.360	-8.230	1.00	0.00
ATOM	367	0	ASN A	29	146.158	-12.203	-7.987	1.00	0.00
ATOM	368	CB	ASN A	29	148.275	-10.920	-10.354	1.00	0.00
ATOM	369	CG	ASN A	29	147.996	-11.056	-11.838	1.00	0.00
ATOM	370	OD1	ASN A	29	147.912	-12.164	-12.367	1.00	0.00
ATOM	371	ND2	ASN A	29	147.853	-9.925	-12.519	1.00	0.00

ATOM 372	H	ASN A	29 147.660 -8.580 -9.594 1.00 0.00
ATOM 373	HA	ASN A	29 146.146 -10.896 -10.121 1.00 0.00
ATOM 374	1HB	ASN A	29 148.997 -10.130 -10.214 1.00 0.00
ATOM 375	2HB	ASN A	29 148.691 -11.852 -9.998 1.00 0.00
ATOM 376	1HD2	ASN A	29 147.934 -9.078 -12.031 1.00 0.00
ATOM 377	2HD2	ASN A	29 147.672 -9.983 -13.480 1.00 0.00
ATOM 378	N	PRO A	30 148.002 -11.075 -7.356 1.00 0.00
ATOM 379	CA	PRO A	30 148.120 -11.741 -6.056 1.00 0.00
ATOM 380	С	PRO A	30 147.114 -11.205 -5.038 1.00 0.00
ATOM 381	0	PRO A	30 147.237 -10.072 -4.573 1.00 0.00
ATOM 382	CB	PRO A	30 149.546 -11.404 -5.625 1.00 0.00
ATOM 383	CG	PRO A	30 149.829 -10.088 -6.263 1.00 0.00
ATOM 384	CD	PRO A	30 149.076 -10.083 -7.567 1.00 0.00
ATOM 385	HA	PRO A	30 148.011 -12.810 -6.147 1.00 0.00
ATOM 386	1HB	PRO A	30 149.593 -11.340 -4.546 1.00 0.00
ATOM 387	2HB	PRO A	30 150.223 -12.167 -5.977 1.00 0.00
ATOM 388	1HG	PRO A	30 149.481 -9.289 -5.626 1.00 0.00
ATOM 389	2HG	PRO A	30 150.890 -9.989 -6.444 1.00 0.00
ATOM 390	1HD	PRO A	30 148.662 -9.105 -7.757 1.00 0.00
ATOM 391	2HD	PRO A	30 149.722 -10.382 -8.377 1.00 0.00
ATOM 392	N	PRO A	31 146.100 -12.014 -4.676 1.00 0.00
ATOM 393	CA	PRO A	31 145.077 -11.606 -3.707 1.00 0.00
ATOM 394	С	PRO A	31 145.637 -11.476 -2.293 1.00 0.00
ATOM 395	0	PRO A	31 145.647 -12.440 -1.529 1.00 0.00
ATOM 396	CB	PRO A	31 144.050 -12.738 -3.773 1.00 0.00
ATOM 397	CG	PRO A	31 144.818 -13.920 -4.250 1.00 0.00
ATOM 398	CD	PRO A	31 145.872 -13.382 -5.177 1.00 0.00
ATOM 399	HA	PRO A	31 144.611 -10.675 -3.994 1.00 0.00
ATOM 400	1HB	PRO A	31 143.633 -12.906 -2.791 1.00 0.00

ATOM 401	2HB	PRO A	31 143.263 -1	2.474	-4.464 1.00 0.00
ATOM 402	1HG	PRO A	31 145.278 -1	14.423	-3.411 1.00 0.00
ATOM 403	2HG	PRO A	31 144.163 -	14.596	-4.779 1.00 0.00
ATOM 404	1HD	PRO A	31 146.773 -	13.973	-5.109 1.00 0.00
ATOM 405	2HD	PRO A	31 145.507 -	13.363	-6.193 1.00 0.00
ATOM 406	N	PHE A	32 146.101 -	10.278	-1.955 1.00 0.00
ATOM 407	CA	PHE A	32 146.662 -	10.020	-0.634 1.00 0.00
ATOM 408	С	PHE A	32 145.773	-9.069	0.160 1.00 0.00
ATOM 409	0	PHE A	32 144.803	-8.524	-0.368 1.00 0.00
ATOM 410	CB	PHE A	32 148.070	-9.434	-0.760 1.00 0.00
ATOM 411	CG	PHE A	32 148.162	-8.301	-1.742 1.00 0.00
ATOM 412	CD1	PHE A	32 148.899	-8.435	-2.907 1.00 0.00
ATOM 413	CD2	PHE A	32 147.511	-7.102	-1.499 1.00 0.00
ATOM 414	CE1	PHE A	32 148.985	-7.394	-3.813 1.00 0.00
ATOM 415	CE2	PHE A	32 147.593	-6.057	-2.400 1.00 0.00
ATOM 416	CZ	PHE A	32 148.331	-6.203	-3.558 1.00 0.00
ATOM 417	H	PHE A	32 146.065	-9.548	-2.609 1.00 0.00
ATOM 418	HA	PHE A	32 146.721 -	10.962	-0.109 1.00 0.00
ATOM 419	1HB	PHE A	32 148.386	-9.064	0.204 1.00 0.00
ATOM 420	2HB	PHE A	32 148.748 -	10.211	-1.083 1.00 0.00
ATOM 421	HD1	PHE A	32 149.409	-9.365	-3.107 1.00 0.00
ATOM 422	HD2	PHE A	32 146.933	-6.987	-0.593 1.00 0.00
ATOM 423	HE1	PHE A	32 149.563	-7.510	-4.717 1.00 0.00
ATOM 424	HE2	PHE A	32 147.082	-5.128	-2.199 1.00 0.00
ATOM 425	HZ	PHE A	32 148.397	-5.389	-4.264 1.00 0.00
ATOM 426	N	TYR A	33 146.109	-8.875	1.431 1.00 0.00
ATOM 427	CA	TYR A	33 145.340	-7.989	2.298 1.00 0.00
ATOM 428	С	TYR A	33 146.263	-7.088	3.112 1.00 0.00
ATOM 429	0	TYR A	33 147.282	-7.538	3.635 1.00 0.00

ATOM 430	СВ	TYR A	33 144.448 -8.807	3.236 1.00 0.00
ATOM 431	CG	TYR A	33 143.132 -9.218	2.616 1.00 0.00
ATOM 432	CD1	TYR A	33 142.336 -8.293	1.954 1.00 0.00
ATOM 433	CD2	TYR A	33 142.687 -10.531	2.692 1.00 0.00
ATOM 434	CE1	TYR A	33 141.131 -8.664	1.386 1.00 0.00
ATOM 435	CE2	TYR A	33 141.485 -10.911	2.126 1.00 0.00
ATOM 436	CZ	TYR A	33 140.711 -9.974	1.474 1.00 0.00
ATOM 437	OH	TYR A	33 139.514 -10.348	0.910 1.00 0.00
ATOM 438	Н	TYR A	33 146.892 -9.337	1.795 1.00 0.00
ATOM 439	HA	TYR A	33 144.715 -7.371	1.670 1.00 0.00
ATOM 440	1HB	TYR A	33 144.972 -9.705	3.527 1.00 0.00
ATOM 441	2HB	TYR A	33 144.233 -8.221	4.117 1.00 0.00
ATOM 442	HD1	TYR A	33 142.667 -7.267	1.885 1.00 0.00
ATOM 443	HD2	TYR A	33 143.295 -11.264	3.203 1.00 0.00
ATOM 444	HE1	TYR A	33 140.527 -7.930	0.875 1.00 0.00
ATOM 445	HE2	TYR A	33 141.156 -11.937	2.196 1.00 0.00
ATOM 446	НН	TYR A	33 139.057 -10.955	1.498 1.00 0.00
ATOM 447	N	GLY A	34 145.899 -5.814	3.214 1.00 0.00
ATOM 448	CA	GLY A	34 146.705 -4.871	3.966 1.00 0.00
ATOM 449	С	GLY A	34 145.905 -3.675	4.442 1.00 0.00
ATOM 450	0	GLY A	34 144.740 -3.513	4.077 1.00 0.00
ATOM 451	Н	GLY A	34 145.075 -5.513	2.776 1.00 0.00
ATOM 452	1HA	GLY A	34 147.123 -5.375	4.825 1.00 0.00
ATOM 453	2HA	GLY A	34 147.511 -4.524	3.338 1.00 0.00
ATOM 454	N	VAL A	35 146.531 -2.835	5.261 1.00 0.00
ATOM 455	CA	VAL A	35 145.870 -1.647	5.789 1.00 0.00
ATOM 456	С	VAL A	35 146.552 -0.375	5.292 1.00 0.00
ATOM 457	0	VAL A	35 147.766 -0.345	5.095 1.00 0.00
ATOM 458	CB	VAL A	35 145.861 -1.649	7.330 1.00 0.00

ATOM 459	CG1 VAL A	35 147.281	-1.641	7.878 1.00 0.00
ATOM 460	CG2 VAL A	35 145.069	-0.464	7.864 1.00 0.00
ATOM 461	H VAL A	35 147.459	-3.018	5.515 1.00 0.00
ATOM 462	HA VAL A	35 144.846	-1.653	5.443 1.00 0.00
ATOM 463	HB VAL A	35 145.378	-2.556	7.665 1.00 0.00
ATOM 464	1HG1 VAL A	35 147.861	-0.890	7.361 1.00 0.00
ATOM 465	2HG1 VAL A	35 147.730	-2.611	7.726 1.00 0.00
ATOM 466	3HG1 VAL A	35 147.259	-1.415	8.934 1.00 0.00
ATOM 467	1HG2 VAL A	35 144.397	-0.107	7.098 1.00 0.00
ATOM 468	2HG2 VAL A	35 145.749	0.326	8.144 1.00 0.00
ATOM 469	3HG2 VAL A	35 144.500	-0.772	8.729 1.00 0.00
ATOM 470	N ILE A	36 145.761	0.675	5.093 1.00 0.00
ATOM 471	CA ILE A	36 146.289	1.949	4.620 1.00 0.00
ATOM 472	C ILE A	36 147.261	2.548	5.632 1.00 0.00
ATOM 473	O ILE A	36 147.108	2.361	6.840 1.00 0.00
ATOM 474	CB ILE A	36 145.160	2.962	4.345 1.00 0.00
ATOM 475	CG1 ILE A	36 144.100	2.342	3.431 1.00 0.00
ATOM 476	CG2 ILE A	36 145.726	4.232	3.724 1.00 0.00
ATOM 477	CD1 ILE A	36 142.962	3.283	3.101 1.00 0.00
ATOM 478	H ILE A	36 144.801	0.591	5.268 1.00 0.00
ATOM 479	HA ILE A	36 146.816	1.768	3.695 1.00 0.00
ATOM 480	HB ILE A	36 144.704	3.224	5.288 1.00 0.00
ATOM 481	1HG1 ILE A	36 144.564	2.046	2.502 1.00 0.00
ATOM 482	2HG1 ILE A	36 143.683	1.472	3.913 1.00 0.00
ATOM 483	1HG2 ILE A	36 146.440	4.677	4.402 1.00 0.00
ATOM 484	2HG2 ILE A	36 144.923	4.930	3.538 1.00 0.00
ATOM 485	3HG2 ILE A	36 146.216	3.989	2.794 1.00 0.00
ATOM 486	1HD1 ILE A	36 143.360	4.209	2.712 1.00 0.00
ATOM 487	2HD1 ILE A	36 142.390	3.485	3.995 1.00 0.00

ATOM 488	3HD1	ILE A	36 142.321	2.827	2.360 1.00 0.00
ATOM 489 .	N	ARG A	37 148.260	3.266	5.132 1.00 0.00
ATOM 490	CA	ARG A	37 149.257	3.890	5.993 1.00 0.00
ATOM 491	С	ARG A	37 149.449	5.360	5.629 1.00 0.00
ATOM 492	0	ARG A	37 149.125	6.251	6.413 1.00 0.00
ATOM 493	CB	ARG A	37 150.590	3.149	5.885 1.00 0.00
ATOM 494	CG	ARG A	37 150.463	1.645	6.063 1.00 0.00
ATOM 495	CD	ARG A	37 150.492	1.254	7.532 1.00 0.00
ATOM 496	NE	ARG A	37 149.280	1.671	8.234 1.00 0.00
ATOM 497	CZ	ARG A	37 149.190	1.779	9.558 1.00 0.00
ATOM 498	NH1	ARG A	37 150.236	1.502	10.326 1.00 0.00
ATOM 499	NH2	ARG A	37 148.049	2.166	10.114 1.00 0.00
ATOM 500	Н	ARG A	37 148.330	3.378	4.161 1.00 0.00
ATOM 501	HA	ARG A	37 148.903	3.828	7.011 1.00 0.00
ATOM 502	1HB	ARG A	37 151.018	3.340	4.912 1.00 0.00
ATOM 503	2HB	ARG A	37 151.261	3.524	6.644 1.00 0.00
ATOM 504	1HG	ARG A	37 149.529	1.318	5.633 1.00 0.00
ATOM 505	2HG	ARG A	37 151.286	1.161	5.556 1.00 0.00
ATOM 506	1HD	ARG A	37 150.587	0.181	7.604 1.00 0.00
ATOM 507	2HD	ARG A	37 151.345	1.722	7.999 1.00 0.00
ATOM 508	HE	ARG A	37 148.493	1.881	7.691 1.00 0.00
ATOM 509	1HH	I1 ARG A	37 151.098	1.209	9.913 1.00 0.00
ATOM 510	2HF	II ARG A	37 150.161	1.585	11.320 1.00 0.00
ATOM 511	1H	12 ARG A	37 147.259	2.376	9.540 1.00 0.00
ATOM 512	2HF	12 ARG A	37 147.982	2.247	11.108 1.00 0.00
ATOM 513	N	TRP A	38 149.977	5.605	4.434 1.00 0.00
ATOM 514	CA	TRP A	A 38 150.210	6.967	3.968 1.00 0.00
ATOM 515	С	TRP A	A 38 149.461	7.233	2.665 1.00 0.00
ATOM 516	0	TRP	A 38 149.556	6.459	1.712 1.00 0.00

ATOM 517	CB	TRP A	38 151.709	7.216	3.772 1.00 0.00
ATOM 518	CG	TRP A	38 152.013	8.486	3.032 1.00 0.00
ATOM 519	CD1	TRP A	38 152.250	9.716	3.576 1.00 0.00
ATOM 520	CD2	TRP A	38 152.100	8.650	1.612 1.00 0.00
ATOM 521	NE1	TRP A	38 152.480	10.635	2.580 1.00 0.00
ATOM 522	CE2	TRP A	38 152.395	10.004	1.365 1.00 0.00
ATOM 523	CE3	TRP A	38 151.959	7.782	0.525 1.00 0.00
ATOM 524	CZ2	TRP A	38 152.550	10.509	0.076 1.00 0.00
ATOM 525	CZ3	TRP A	38 152.114	8.285	-0.753 1.00 0.00
ATOM 526	CH2	TRP A	38 152.406	9.637	-0.968 1.00 0.00
ATOM 527	H	TRP A	38 150.215	4.852	3.852 1.00 0.00
ATOM 528	HA	TRP A	38 149.839	7.642	4.724 1.00 0.00
ATOM 529	1HB	TRP A	38 152.188	7.272	4.739 1.00 0.00
ATOM 530	2HB	TRP A	38 152.134	6.395	3.212 1.00 0.00
ATOM 531	HD1	TRP A	38 152.253	9.922	4.636 1.00 0.00
ATOM 532	HE1	TRP A	38 152.676	11.585	2.716 1.00 0.00
ATOM 533	HE3	TRP A	38 151.734	6.737	0.672 1.00 0.00
ATOM 534	HZ2	TRP A	38 152.772	11.549	-0.107 1.00 0.00
ATOM 535	HZ3	TRP A	38 152.009	7.629	-1.604 1.00 0.00
ATOM 536	HH2	TRP A	38 152.519	9.986	-1.984 1.00 0.00
ATOM 537	N	ILE A	39 148.726	8.338	2.631 1.00 0.00
ATOM 538	CA	ILE A	39 147.967	8.719	1.446 1.00 0.00
ATOM 539	C	ILE A	39 148.411	10.088	0.940 1.00 0.00
ATOM 540	0	ILE A	39 148.093	11.113	1.541 1.00 0.00
ATOM 541	CB	ILE A	39 146.454	8.753	1.731 1.00 0.00
ATOM 542	CG1	ILE A	39 146.012	7.460	2.417 1.00 0.00
ATOM 543	CG2	ILE A	39 145.675	8.969	0.442 1.00 0.00
ATOM 544	CD1	ILE A	39 144.676	7.574	3.117 1.00 0.00
ATOM 545	H	ILE A	39 148.697	8.917	3.421 1.00 0.00

ATOM 546	6 HA	ILE A	39 148.154	7.983	0.677 1.00 0.00
ATOM 547	7 HB	ILE A	39 146.253	9.587	2.386 1.00 0.00
ATOM 548	8 1HG1	ILE A	39 145.933	6.677	1.678 1.00 0.00
ATOM 549	9 2HG1	ILE A	39 146.751	7. 181	3.154 1.00 0.00
ATOM 55	0 1HG2	ILE A	39 144.625	8.799	0.623 1.00 0.00
ATOM 55	1 2HG2	ILE A	39 146.028	8.278	-0.310 1.00 0.00
ATOM 55	2 3HG2	ILE A	39 145.822	9.982	0.098 1.00 0.00
ATOM 55	3 1HD1	ILE A	39 144.179	8.477	2.800 1.00 0.00
ATOM 55	4 2HD1	ILE A	39 144.830	7.604	4.186 1.00 0.00
ATOM 55	5 3HD1	ILE A	39 144.064	6.719	2.866 1.00 0.00
ATOM 55	66 N	GLY A	40 149.152	10.097	-0.164 1.00 0.00
ATOM 55	57 CA	GLY A	40 149.630	11.349	-0.720 1.00 0.00
ATOM 55	58 C	GLY A	40 150.140	11.202	-2.140 1.00 0.00
ATOM 55	59 0	GLY A	40 149.996	10.144	-2.755 1.00 0.00
ATOM 50	60 H	GLY A	40 149.379	9.250	-0.599 1.00 0.00
ATOM 5	61 1HA	GLY A	40 148.823	12.064	-0.713 1.00 0.00
ATOM 5	62 2HA	GLY A	40 150.431	11.721	-0.100 1.00 0.00
ATOM 5	63 N	GLN A	41 150.738	12.268	-2.659 1.00 0.00
ATOM 5	64 CA	GLN A	41 151.275	12.266	-4.014 1.00 0.00
ATOM 5	65 C	GLN A	41 152.744	12.682	-4.013 1.00 0.00
ATOM 5	66 0	GLN A	41 153.073	13.816	-3.661 1.00 0.00
ATOM 5	67 CB	GLN A	41 150.463	13.213	-4.899 1.00 0.00
ATOM 5	68 CG	GLN A	41 148.960	13.014	-4.785 1.00 0.00
ATOM 5	69 CD	GLN A	41 148.199	14.324	-4.770 1.00 0.00
ATOM 5	570 OE1	GLN A	41 148.192	15.042	-3.770 1.00 0.00
ATOM 5	571 NE2	CLN A	41 147.550	14.643	-5.884 1.00 0.00
ATOM 5	572 H	GLN A	41 150.820	13.080	-2.117 1.00 0.00
ATOM 5	573 HA	GLN A	41 151.192	11.264	-4.405 1.00 0.00
ATOM 5	574 1HI	B GLN A	41 150.692	14.230	-4.618 1.00 0.00

ATOM 575	2HB	GLN A	41 150.750	13.060	-5.927 1.00 0.00
ATOM 576	1HG	GLN A	41 148.623	12.428	-5.626 1.00 0.00
ATOM 577	2HG	GLN A	41 148.750	12.481	-3.869 1.00 0.00
ATOM 578	1HE2	GLN A	41 147.599	14.024	-6.642 1.00 0.00
ATOM 579	2HE2	GLN A	41 147.049	15.485	-5.903 1.00 0.00
ATOM 580	N	PRO A	42 153.655	11.772	-4.405 1.00 0.00
ATOM 581	CA	PRO A	42 155.092	12.061	-4.440 1.00 0.00
ATOM 582	С	PRO A	42 155.420	13.259	-5.326 1.00 0.00
ATOM 583	0 .	PRO A	42 154.629	13.637	-6.191 1.00 0.00
ATOM 584	CB	PRO A	42 155.706	10.783	-5.022 1.00 0.00
ATOM 585	CG	PRO A	42 154.698	9.719	-4.754 1.00 0.00
ATOM 586	CD	PRO A	42 153.361	10.395	-4.841 1.00 0.00
ATOM 587	HA	PRO A	42 155.484	12.233	-3.448 1.00 0.00
ATOM 588	1HB	PRO A	42 155.874	10.911	-6.081 1.00 0.00
ATOM 589	2HB	PRO A	42 156.642	10.573	-4.526 1.00 0.00
ATOM 590	1HG	PRO A	42 154.776	8.942	-5.499 1.00 0.00
ATOM 591	2HG	PRO A	42 154.848	9.311	-3.765 1.00 0.00
ATOM 592	1HD	PRO A	42 152.996	10.381	-5.857 1.00 0.00
ATOM 593	2HD	PRO A	42 152.653	9.922	-4.176 1.00 0.00
ATOM 594	N	PRO A	43 156.595	13.876	-5.121 1.00 0.00
ATOM 595	CA	PRO A	43 157.024	15.037	-5.905 1.00 0.00
ATOM 596	C	PRO A	43 157.402	14.663	-7.333 1.00 0.00
ATOM 597	0	PRO A	43 158.567	14.392	-7.627 1.00 0.00
ATOM 598	CB	PRO A	43 158.249	15.545	-5.146 1.00 0.00
ATOM 599	CG	PRO A	43 158.788	3 14.344	-4.449 1.00 0.00
ATOM 600	CD	PRO A	43 157.597	7 13.489	-4.110 1.00 0.00
ATOM 601	HA	PRO A	43 156.264	15.804	-5.924 1.00 0.00
ATOM 602	1HB	PRO A	43 158.96	5 15.950	-5.847 1.00 0.00
ATOM 603	2HB	PRO A	43 157.95	1 16.307	-4.443 1.00 0.00

-5.107 1.00 0.00 13.808 43 159.457 ATOM 604 PRO A 1HG -3.549 1.00 0.00 14.642 PRO A 43 159.304 ATOM 605 2HG -4.196 1.00 0.00 12.442 43 157.847 PRO A ATOM 606 1HD-3.114 1.00 0.0013.713 PRO A ATOM 607 2HD 43 157.244 -8.219 1.00 0.00 44 156.412 GLY A 14.650 ATOM 608 N -9.605 1.00 0.00 44 156.666 14.309GLY A ATOM 609 CA 13.817 -10.320 1.00 0.00 44 155.424 C GLY A ATOM 610 14.302 -11.401 1.00 0.00 44 155.089 ATOM 611 0 GLY A $-7.929 \ 1.00 \ 0.00$ 14.876 44 155.503 ATOM 612 Η GLY A 15.183 -10.117 1.00 0.00 44 157.039 1HA GLY A ATOM 613 -9.641 1.00 0.00 13.535 GLY A 44 157.418 ATOM 614 2HA $-9.716 \ 1.00 \ 0.00$ 12.852 45 154.738 N LEU A ATOM 615 12.298 -10.306 1.00 0.00 45 153.525 CA LEU A ATOM 616 -9.368 1.00 0.00 12.469C LEU A 45 152.337 ATOM 617 -8.297 1.00 0.00 45 152.290 11.867 LEU A ATOM 618 0 10.815 -10.630 1.00 0.00 45 153.722 LEU A ATOM 619 CB -9.503 1.00 0.00 9.984 LEU A 45 154.338 CG ATOM 620 -9.697 1.00 0.00 8.505 LEU A 45 154.029 CD1 ATOM 621 -9.432 1.00 0.0045 155.842 10.216 CD2 LEU A ATOM 622 -8.852 1.00 0.00 12.50745 155.053 LEU A ATOM 623 Η 12.833 -11.222 1.00 0.00 45 153.326 ATOM 624 HA LEU A 10.391 -10.877 1.00 0.00 1HB LEU A 45 152.760 ATOM 625 10.739 -11.495 1.00 0.00 45 154.364 LEU A ATOM 626 2HB-8.561 1.00 0.00 10.292 45 153.907 LEU A HG ATOM 627 45 153.531 8.361 -10.644 1.00 0.00 1HD1 LEU A ATOM 628 -8.898 1.00 0.00 45 153.386 8.164 2HD1 LEU A ATOM 629 -9.684 1.00 0.00 7.93945 154.949 3HD1 LEU A ATOM 630 10.818 -8.566 1.00 0.00 45 156.072 1HD2 LEU A ATOM 631 10.728 -10.324 1.00 0.00 45 156.170 2HD2 LEU A ATOM 632

-9.355 1.00 0.00 9.266 3HD2 LEU A 45 156.351 ATOM 633 -9.776 1.00 0.00 13.292 ASN A 46 151.375 ATOM 634 N -8.962 1.00 0.00 ATOM 635 ASN A 46 150.192 13.528 CA -9.000 1.00 0.00 46 149.268 12.316 C ASN A ATOM 636 12.044 -10.013 1.00 0.00 ASN A 46 148.624 ATOM 637 0 14.769-9.454 1.00 0.00 ASN A 46 149.446 ATOM 638 CB 15.484 -8.339 1.00 0.00 CG ASN A 46 148.709 ATOM 639 15.539 -8.328 1.00 0.00 46 147.479 ATOM 640 OD1 ASN A 16.036 -7.393 1.00 0.00 ASN A 46 149.460 ND2 ATOM 641 13.744 -10.641 1.00 0.00 46 151.462 ASN A ATOM 642 H 13.691 -7.944 1.00 0.00 46 150.513 ASN A HA ATOM 643 -9.891 1.00 0.00 15.457 46 150.154 1HB ASN A ATOM 644 14.474 -10.206 1.00 0.00 46 148.727 ASN A ATOM 645 2HB $-7.468 \ 1.00 \ 0.00$ 46 150.433 15.953 1HD2 ASN A ATOM 646 -6.660 1.00 0.00 16.505 2HD2 ASN A 46 149.009 ATOM 647 -7.889 1.00 0.00 11.591 GLU A 47 149.212 ATOM 648 N -7.789 1.00 0.00 47 148.370 10.404 GLU A ATOM 649 CA -6.339 1.00 0.0047 148.235 9.958 GLU A ATOM 650 C -5.679 1.00 0.009.655 47 149.230 ATOM 651 0 GLU A -8.634 1.00 0.00 9.266 47 148.948 CB GLU A ATOM 652 -8.595 1.00 0.00 9.182 CG GLU A 47 150.467 ATOM 653 -9.715 1.00 0.00 8.332 ATOM 654 CD GLU A 47 151.033 8.825 -10.861 1.00 0.00 ATOM 655 0E1 GLU A 47 151.096 -9.446 1.00 0.00 0E2 GLU A 47 151.415 7.173 ATOM 656 -7.117 1.00 0.00 GLU A 47 149.752 11.859 ATOM 657 H -8.167 1.00 0.00 GLU A 47 147.392 10.660 ATOM 658 HA -8.275 1.00 0.00 GLU A 47 148.550 8.329 1HB ATOM 659 -9.662 1.00 0.0047 148.645 9.405 2HB GLU A ATOM 660 10.179 -8.681 1.00 0.00 47 150.872 ATOM 661 1HG GLU A

ATOM 662	2HG	GLU A	47	150.768	8.755	-7.650 1.00 0.00
ATOM 663	N	VAL A	48	147.003	9.912	-5.846 1.00 0.00
ATOM 664	CA	VAL A	48	146.751	9.495	-4.473 1.00 0.00
ATOM 665	С	VAL A	48	147. 166	8.044	-4.268 1.00 0.00
ATOM 666	0	VAL A	48	146.436	7.121	-4.633 1.00 0.00
ATOM 667	CB	VAL A	48	145.266	9.655	-4.096 1.00 0.00
ATOM 668	CG1	VAL A	48	145.057	9.375	-2.616 1.00 0.00
ATOM 669	CG2	VAL A	48	144.768	11.047	-4.457 1.00 0.00
ATOM 670	H	VAL A	48	146.248	10.161	-6.418 1.00 0.00
ATOM 671	HA	VAL A	48	147.340	10.123	-3.819 1.00 0.00
ATOM 672	HB	VAL A	48	144.693	8.934	-4.661 1.00 0.00
ATOM 673	1HG	VAL A	48	145.200	8.321	-2.425 1.00 0.00
ATOM 674	2HG	L VAL A	48	144.055	9.659	-2.334 1.00 0.00
ATOM 675	3HG	ı VAL A	48	145.769	9.945	-2.037 1.00 0.00
ATOM 676	1HG	2 VAL A	48	145.443	11.500	-5.168 1.00 0.00
ATOM 677	2HG	2 VAL A	48	144.724	11.656	-3.566 1.00 0.00
ATOM 678	3HG	2 VAL A	48	143.783	10.975	-4.893 1.00 0.00
ATOM 679	N	LEU A	49	148.343	7.846	-3.684 1.00 0.00
ATOM 680	CA	LEU A	49	148.856	6.506	-3.434 1.00 0.00
ATOM 681	С	LEU A	. 49	148.772	6.164	-1.953 1.00 0.00
ATOM 682	0	LEU A	49	149.439	6.784	-1.124 1.00 0.00
ATOM 683	CB	LEU A	49	150.304	6.392	-3.915 1.00 0.00
ATOM 684	CG	LEU A	49	150.503	6.575	-5.421 1.00 0.00
ATOM 685	CD	LEU A	49	151.948	6.937	-5.729 1.00 0.00
ATOM 686	CD2	LEU A	49	9 150.097	5.313	-6.168 1.00 0.00
ATOM 687	Н	LEU A	4 49	9 148.880	8.621	-3.416 1.00 0.00
ATOM 688	HA	LEU A	A 49	9 148.246	5.808	3 -3.988 1.00 0.00
ATOM 689	1H	B LEU	A 49	9 150.892	7.140	-3.402 1.00 0.00
ATOM 690	2H	B LEU	A 4	9 150.677	5.416	3.642 1.00 0.00

ATOM 691	HG	LEU A	49 149.875	7.384	-5.765 1.00 0.00
ATOM 692	1HD1	LEU A	49 151.984	7.547	-6.619 1.00 0.00
ATOM 693	2HD1	LEU A	49 152.519	6.035	-5.886 1.00 0.00
ATOM 694	3HD1	LEU A	49 152.366	7.487	-4.898 1.00 0.00
ATOM 695	1HD2	LEU A	49 149.362	4.774	-5.589 1.00 0.00
ATOM 696	2HD2	LEU A	49 150.966	4.689	-6.318 1.00 0.00
ATOM 697	3HD2	LEU A	49 149.676	5.581	-7.125 1.00 0.00
ATOM 698	N	ALA A	50 147.948	5.176	-1.625 1.00 0.00
ATOM 699	CA	ALA A	50 147.780	4.758	-0.242 1.00 0.00
ATOM 700	С	ALA A	50 148.746	3.631	0.112 1.00 0.00
ATOM 701	0	ALA A	50 148.657	2.531	-0.433 1.00 0.00
ATOM 702	CB	ALA A	50 146.342	4.325	0.007 1.00 0.00
ATOM 703	H	ALA A	50 147.443	4.719	-2.329 1.00 0.00
ATOM 704	HA	ALA A	50 147.989	5.610	0.387 1.00 0.00
ATOM 705	1HB	ALA A	50 145.712	4.691	-0.789 1.00 0.00
ATOM 706	2HB	ALA A	50 146.003	4.728	0.949 1.00 0.00
ATOM 707	ЗНВ	ALA A	50 146.292	3.246	0.039 1.00 0.00
ATOM 708	N	GLY A	51 149.668	3.914	1.025 1.00 0.00
ATOM 709	CA	GLY A	51 150.637	2.915	1.434 1.00 0.00
ATOM 710	С	GLY A	51 150.011	1.789	2.232 1.00 0.00
ATOM 711	0	GLY A	51 149.679	1.961	3.406 1.00 0.00
ATOM 712	Н	GLY A	51 149.691	4.808	1.425 1.00 0.00
ATOM 713	1HA	GLY A	51 151.104	2.499	0.553 1.00 0.00
ATOM 714	2HA	GLY A	51 151.396	3.391	2.039 1.00 0.00
ATOM 715	N	LEU A	52 149.848	0.634	1.596 1.00 0.00
ATOM 716	CA	LEU A	52 149.257	-0.524	2.256 1.00 0.00
ATOM 717	С	LEU A	52 150.331	-1.381	2,919 1.00 0.00
ATOM 718	0	LEU A	52 151.450	-1.488	2.418 1.00 0.00
ATOM 719	CB	LEU A	A 52 148.468	-1.365	1.248 1.00 0.00

ATOM 720	CG	LEU A	52 147.201	-0.702	0.703 1.00 0.00
ATOM 721	CD1	LEU A	52 146.592	-1.549	-0.403 1.00 0.00
ATOM 722	CD2	LEU A	52 146.196	-0.478	1.823 1.00 0.00
ATOM 723	Н	LEU A	52 150.133	0.558	0.662 1.00 0.00
ATOM 724	HA	LEU A	52 148.581	-0.163	3.016 1.00 0.00
ATOM 725	1HB	LEU A	52 149.119	-1.592	0.416 1.00 0.00
ATOM 726	2HB	LEU A	52 148.187	-2.291	1.726 1.00 0.00
ATOM 727	HG	LEU A	52 147.458	0.260	0.284 1.00 0.00
ATOM 728	1HD1	LEU A	52 146.403	-2.546	-0.032 1.00 0.00
ATOM 729	2HD1	LEU A	52 147.276	-1.599	-1.237 1.00 0.00
ATOM 730	3HD1	LEU A	52 145.663	-1.103	-0.726 1.00 0.00
ATOM 731	1HD2	LEU A	52 146.362	-1.202	2.607 1.00 0.00
ATOM 732	2HD2	LEU A	52 145.194	-0.592	1.434 1.00 0.00
ATOM 733	3HD2	E LEU A	52 146.316	0.519	2.220 1.00 0.00
ATOM 734	N	GLU A	53 149.982	-1.988	4.049 1.00 0.00
ATOM 735	CA	GLU A	53 150.916	-2.836	4.781 1.00 0.00
ATOM 736	С	GLU A	53 150.448	-4.287	4.782 1.00 0.00
ATOM 737	0	GLU A	53 149.515	-4.649	5.499 1.00 0.00
ATOM 738	СВ	GLU A	53 151.069	-2.336	6.219 1.00 0.00
ATOM 739	CG	GLU A	53 152.057	-3.146	7.042 1.00 0.00
ATOM 740	CD	GLU A	53 151.571	-3.395	8.457 1.00 0.00
ATOM 741	OE1	GLU A	53 151.282	2 -4.563	8.789 1.00 0.00
ATOM 742	0E2	GLU A	53 151.482	2 -2.420	9.234 1.00 0.00
ATOM 743	Н	GLU A	53 149.07	5 -1.864	4.398 1.00 0.00
ATOM 744	. HA	GLU A	53 151.87	4 -2.779	4.286 1.00 0.00
ATOM 745	1HE	GLU A	53 151.40	7 –1.311	6.198 1.00 0.00
ATOM 746	2HI	GLU A	A 53 150.10°	7 –2.379	6.707 1.00 0.00
ATOM 747	1H(G GLU	A 53 152.21	2 -4.099	6.560 1.00 0.00
ATOM 748	2H0	G GLU	A 53 152.99	4 -2.610	7.088 1.00 0.00

ATOM 749	N	LEU A	54 151.10	3 -5.114	3.974 1.00 0.00
ATOM 750	CA	LEU A	54 150.75	4 -6.527	3.881 1.00 0.00
ATOM 751	C	LEU A	54 151.04	6 -7.247	5.194 1.00 0.00
ATOM 752	0	LEU A	54 152.05	7 -6.982	5.846 1.00 0.00
ATOM 753	CB	LEU A	54 151.52	4 -7.191	2.739 1.00 0.00
ATOM 754	CG	LEU A	54 151.32	4 -6.552	1.364 1.00 0.00
ATOM 755	CD1	LEU A	54 152.29	7 -7.140	0.354 1.00 0.00
ATOM 756	CD2	LEU A	54 149.88	39 -6.740	0.895 1.00 0.00
ATOM 757	Н	LEU A	54 151.83	88 -4.767	3.426 1.00 0.00
ATOM 758	HA	LEU A	54 149.69	6 -6.594	3.676 1.00 0.00
ATOM 759	1HB	LEU A	54 152.57	78 -7.160	2.978 1.00 0.00
ATOM 760	2HB	LEU A	54 151.2	19 -8.225	2.679 1.00 0.00
ATOM 761	HG	LEU A	54 151.5	17 -5.492	1.435 1.00 0.00
ATOM 762	1HD:	l LEU A	54 152.3	08 -8.216	0.449 1.00 0.00
ATOM 763	2HD	1 LEU A	54 153.2	88 -6.753	0.542 1.00 0.00
ATOM 764	3HD	1 LEU A	54 151.9	88 -6.870	-0.644 1.00 0.00
ATOM 765	1HD	2 LEU A	54 149.5	41 -7.721	1.183 1.00 0.00
ATOM 766	2HD	2 LEU A	54 149.8	46 -6.644	-0.180 1.00 0.00
ATOM 767	3HD	2 LEU A	54 149.2	60 -5.988	1.349 1.00 0.00
ATOM 768	N	GLU A	55 150.1	.56 -8.157	5.576 1.00 0.00
ATOM 769	CA	GLU A	55 150.3	320 -8.914	6.811 1.00 0.00
ATOM 770	С	GLU A	55 151.3	395 -9.986	6.655 1.00 0.00
ATOM 771	0	GLU A	A 55 152.0	090 -10.325	7.612 1.00 0.00
ATOM 772	CB	GLU A	A 55 148.9	994 -9.562	7.217 1.00 0.00
ATOM 773	CG	GLU A	A 55 147.	871 -8.562	7.436 1.00 0.00
ATOM 774	CD	GLU A	A 55 147.	824 -8.042	8.859 1.00 0.00
ATOM 775	OE:	ı GLU	A 55 146.	921 -8.458	9.615 1.00 0.00
ATOM 776	OE	2 GLU	A 55 148.	691 -7.217	9.219 1.00 0.00
ATOM 777	Н	GLU .	A 55 149.	372 -8.323	5.014 1.00 0.00

ATOM 778	HA	GLU A	55 150.625 -8.225	7.584 1.00 0.00
ATOM 779	1HB	GLU A	55 148.689 -10.248	6.441 1.00 0.00
ATOM 780	2HB	GLU A	55 149.142 -10.112	8.134 1.00 0.00
ATOM 781	1HG	GLU A	55 148.015 -7.726	6.769 1.00 0.00
ATOM 782	2HG	GLU A	55 146.930 -9.042	7.213 1.00 0.00
ATOM 783	N	ASP A	56 151.525 -10.513	5.442 1.00 0.00
ATOM 784	CA	ASP A	56 152.516 -11.547	5.161 1.00 0.00
ATOM 785	С	ASP A	56 153.811 -10.931	4.642 1.00 0.00
ATOM 786	0	ASP A	56 153.807 -10.183	3.665 1.00 0.00
ATOM 787	CB	ASP A	56 151.967 -12.544	4.140 1.00 0.00
ATOM 788	CG	ASP A	56 152.412 -13.965	4.423 1.00 0.00
ATOM 789	OD1	ASP A	56 153.373 -14.428	3.773 1.00 0.00
ATOM 790	0D2	ASP A	56 151.800 -14.618	5.295 1.00 0.00
ATOM 791	Н	ASP A	56 150.941 -10.202	4.719 1.00 0.00
ATOM 792	HA	ASP A	56 152.723 -12.067	6.085 1.00 0.00
ATOM 793	1HB	ASP A	56 150.887 -12.516	4.162 1.00 0.00
ATOM 794	2HB	ASP A	56 152.310 -12.268	3.155 1.00 0.00
ATOM 795	N	GLU A	57 154.919 -11.252	5.303 1.00 0.00
ATOM 796	CA	GLU A	57 156.222 -10.731	4.908 1.00 0.00
ATOM 797	С	GLU A	57 156.628 -11.260	3.536 1.00 0.00
ATOM 798	0	GLU A	57 157.106 -12.388	3.411 1.00 0.00
ATOM 799	СВ	GLU A	57 157.282 -11.108	5.946 1.00 0.00
ATOM 800	CG	GLU A	57 157.377 -10.126	7.102 1.00 0.00
ATOM 801	CD	GLU A	57 158.593 -10.371	7.975 1.00 0.00
ATOM 802	0E1	GLU A	57 158.766 -11.514	8.445 1.00 0.00
ATOM 803	0E2	CLU A	57 159.372 -9.418	8.188 1.00 0.00
ATOM 804	Н	GLU A	57 154.858 -11.854	6.074 1.00 0.00
ATOM 805	НА	GLU A	57 156.148 -9.655	4.858 1.00 0.00
ATOM 806	1HE	GLU A	57 157.044 -12.082	6.347 1.00 0.00

ATOM 807	2HB	GLU A	57 158.245 -11.154	5.460 1.00 0.00
ATOM 808	1HG		57 157.436 -9.124	6.703 1.00 0.00
ATOM 809	2HG	GLU A	57 156.490 -10.219	7.711 1.00 0.00
			58 156.432 -10.439	2.510 1.00 0.00
ATOM 810	N	CYS A		1.146 1.00 0.00
ATOM 811	CA	CYS A	58 156.777 -10.825	
ATOM 812	С	CYS A	58 158.157 -10.301	0.765 1.00 0.00
ATOM 813	0	CYS A	58 158.426 -9.103	0.859 1.00 0.00
ATOM 814	CB	CYS A	58 155.730 -10.297	0.164 1.00 0.00
ATOM 815	SG	CYS A	58 155.833 -11.026	-1.487 1.00 0.00
ATOM 816	Н	CYS A	58 156.047 -9.553	2.673 1.00 0.00
ATOM 817	HA	CYS A	58 156.789 -11.903	1.100 1.00 0.00
ATOM 818	1HB	CYS A	58 154.745 -10.506	0.553 1.00 0.00
ATOM 819	2HB	CYS A	58 155.851 -9.229	0.060 1.00 0.00
ATOM 820	HG	CYS A	58 155.366 -10.449	-2.096 1.00 0.00
ATOM 821	N	ALA A	59 159.031 -11.207	0.335 1.00 0.00
ATOM 822	CA	ALA A	59 160.383 -10.836	-0.060 1.00 0.00
ATOM 823	С	ALA A	59 160.374 -10.001	-1.337 1.00 0.00
ATOM 824	0	ALA A	59 160.036 -10.496	-2.411 1.00 0.00
ATOM 825	CB	ALA A	59 161.238 -12.081	-0.249 1.00 0.00
ATOM 826	Н	ALA A	59 158.758 -12.146	0.282 1.00 0.00
ATOM 827	HA	ALA A	59 160.815 -10.250	0.738 1.00 0.00
ATOM 828	1HE	B ALA A	59 161.020 -12.524	-1.210 1.00 0.00
ATOM 829	2HE	3 ALA A	59 161.015 -12.792	0.533 1.00 0.00
ATOM 830	3HI	3 ALA A	59 162.282 -11.811	-0.205 1.00 0.00
ATOM 831	N	GLY A	60 160.746 -8.732	-1.209 1.00 0.00
ATOM 832	CA	GLY A	60 160.773 -7.848	-2.360 1.00 0.00
ATOM 833	С	GLY A	60 160.174 -6.487	-2.062 1.00 0.00
ATOM 834	0	GLY A	60 160.550 -5.488	-2.673 1.00 0.00
ATOM 835	Н	GLY A	A 60 161.005 -8.392	-0.328 1.00 0.00

ATOM 836	1HA	GLY A	60	161.797	-7.717	-2.677 1.00 0.00
ATOM 837	2HA	GLY A	60	160.215	-8.306	-3.165 1.00 0.00
ATOM 838	N	CYS A	61	159.239	-6.449	-1.118 1.00 0.00
ATOM 839	CA	CYS A	61	158.586	-5.201	-0.739 1.00 0.00
ATOM 840	С	CYS A	61	159.505	-4.349	0.132 1.00 0.00
ATOM 841	0	CYS A	61	160.621	-4.755	0.456 1.00 0.00
ATOM 842	CB	CYS A	61	157.281	-5.490	0.005 1.00 0.00
ATOM 843	SG	CYS A	61	156.114	-6.515	-0.920 1.00 0.00
ATOM 844	Н	CYS A	61	158.981	-7.280	-0.667 1.00 0.00
ATOM 845	HA	CYS A	61	158.361	-4.657	-1.644 1.00 0.00
ATOM 846	1HB	CYS A	61	157.507	-6.002	0.928 1.00 0.00
ATOM 847	2HB	CYS A	61	156.791	-4.554	0.230 1.00 0.00
ATOM 848	HG	CYS A	61	155.351	-6.675	-0.360 1.00 0.00
ATOM 849	N	THR A	62	159.026	-3.168	0.508 1.00 0.00
ATOM 850	CA	THR A	62	2 159.805	-2.260	1.342 1.00 0.00
ATOM 851	C	THR A	. 62	2 159.217	-2.171	2.746 1.00 0.00
ATOM 852	0	THR A	62	2 158.231	-2.839	3.059 1.00 0.00
ATOM 853	CB	THR A	62	2 159.854	-0.868	0.708 1.00 0.00
ATOM 854	0G1	THR A	62	2 158.550	-0.421	0.380 1.00 0.00
ATOM 855	CG2	2 THR A	A 6	2 160.689	-0.814	-0.553 1.00 0.00
ATOM 856	Н	THR A	A 6	2 158.130	-2.901	0.218 1.00 0.00
ATOM 857	HA	THR	A 6	2 160.810	-2.650	1.410 1.00 0.00
ATOM 858	HB	THR .	A 6	2 160.28	2 -0.176	1.418 1.00 0.00
ATOM 859	HG	1 THR	A 6	2 158.18	8 -0.974	4 -0.315 1.00 0.00
ATOM 860	1H	G2 THR	A 6	2 160.90	4 -1.819	-0.886 1.00 0.00
ATOM 861	2H	G2 THR	A 6	62 161.61	5 -0.296	6 -0.349 1.00 0.00
ATOM 862	3H	G2 THR	A 6	62 160.14	4 -0.28	8 -1.323 1.00 0.00
ATOM 863	N	ASP	A 6	63 159.82	27 -1.34	2 3.587 1.00 0.00
ATOM 864	CA	ASP	Α (53 159.36	3 -1.16	6 4.958 1.00 0.00

ATOM 865	С	ASP A	63 158.671	0.182	5.130 1.00 0.00
ATOM 866	0	ASP A	63 158.779	0.818	6.178 1.00 0.00
ATOM 867	CB	ASP A	63 160.536	-1.278	5.934 1.00 0.00
ATOM 868	CG	ASP A	63 161.601	-0.229	5.680 1.00 0.00
ATOM 869	OD1	ASP A	63 162.691	-0.596	5.192 1.00 0.00
ATOM 870	0D2	ASP A	63 161.345	0.958	5.968 1.00 0.00
ATOM 871	H	ASP A	63 160.608	-0.838	3.278 1.00 0.00
ATOM 872	HA	ASP A	63 158.653	-1.952	5.171 1.00 0.00
ATOM 873	1HB	ASP A	63 160.170	-1.156	6.942 1.00 0.00
ATOM 874	2HB	ASP A	63 160.987	-2.255	5.834 1.00 0.00
ATOM 875	N	GLY A	64 157.960	0.612	4.093 1.00 0.00
ATOM 876	CA	GLY A	64 157.260	1.882	4.148 1.00 0.00
ATOM 877	C	GLY A	64 158.013	2.990	3.440 1.00 0.00
ATOM 878	0	GLY A	64 158.125	4.102	3.956 1.00 0.00
ATOM 879	Н	GLY A	64 157.909	0.062	3.282 1.00 0.00
ATOM 880	1HA	GLY A	64 156.291	1.767	3.687 1.00 0.00
ATOM 881	2HA	GLY A	64 157.123	2.160	5.183 1.00 0.00
ATOM 882	N	THR A	65 158.529	2.687	2.253 1.00 0.00
ATOM 883	CA	THR A	65 159.276	3.667	1.472 1.00 0.00
ATOM 884	C	THR A	65 158.845	3.638	0.009 1.00 0.00
ATOM 885	0	THR A	65 158.797	2.578	-0.614 1.00 0.00
ATOM 886	СВ	THR A	65 160.778	3.398	1.578 1.00 0.00
ATOM 887	OG1	THR A	65 161.034	2.006	1.641 1.00 0.00
ATOM 888	CG2	2 THR A	65 161.415	4.039	2.791 1.00 0.00
ATOM 889	H	THR A	65 158.406	1.784	1.894 1.00 0.00
ATOM 890	HA	THR A	65 159.064	4.645	1.877 1.00 0.00
ATOM 891	HB	THR A	65 161.266	3.793	0.700 1.00 0.00
ATOM 892	HG!	1 THR A	A 65 160.910	1.618	0.773 1.00 0.00
ATOM 893	1H(G2 THR A	A 65 162.234	3.423	3.135 1.00 0.00

ATOM 894	2HG2	THR A	65 160.681	4.133	3.577 1.00 0.00
ATOM 895	3HG2	THR A	65 161.788	5.018	2.527 1.00 0.00
ATOM 896	N	PHE A	66 158.530	4.811	-0.533 1.00 0.00
ATOM 897	CA	PHE A	66 158.103	4.921	-1.923 1.00 0.00
ATOM 898	С	PHE A	66 159.010	5.872	-2.697 1.00 0.00
ATOM 899	0	PHE A	66 159.157	7.039	-2.334 1.00 0.00
ATOM 900	CB	PHE A	66 156.655	5.406	-1.996 1.00 0.00
ATOM 901	CG	PHE A	66 155.978	5.083	-3.298 1.00 0.00
ATOM 902	CD1	PHE A	66 155.722	3.769	-3.654 1.00 0.00
ATOM 903	CD2	PHE A	66 155.598	6.094	-4.166 1.00 0.00
ATOM 904	CE1	PHE A	66 155.100	3.468	-4.851 1.00 0.00
ATOM 905	CE2	PHE A	66 154.976	5.801	-5.364 1.00 0.00
ATOM 906	CZ	PHE A	66 154.726	4.486	-5.707 1.00 0.00
ATOM 907	Н	PHE A	66 158.588	5.621	0.015 1.00 0.00
ATOM 908	HA	PHE A	66 158.168	3.939	-2.369 1.00 0.00
ATOM 909	1HB	PHE A	66 156.086	4.943	-1.204 1.00 0.00
ATOM 910	2HB	PHE A	66 156.635	6.478	-1.867 1.00 0.00
ATOM 911	HD1	PHE A	66 156.014	2.973	-2.985 1.00 0.00
ATOM 912	HD2	PHE A	66 155.792	7.123	-3.898 1.00 0.00
ATOM 913	HE1	PHE A	66 154.907	2.440	-5.117 1.00 0.00
ATOM 914	HE2	PHE A	66 154.684	6.598	-6.032 1.00 0.00
ATOM 915	HZ	PHE A	66 154.240	4.254	-6.643 1.00 0.00
ATOM 916	N	ARG A	67 159.615	5.366	-3.767 1.00 0.00
ATOM 917	CA	ARG A	67 160.508	6.172	-4.592 1.00 0.00
ATOM 918	С	ARG A	67 161.689	6.684	-3.776 1.00 0.00
ATOM 919	0	ARG A	67 162.217	7.765	-4.039 1.00 0.00
ATOM 920	СВ	ARG A	67 159.746	7.348	-5.204 1.00 0.00
ATOM 921	CG	ARG A	67 158.677	6.930	-6.200 1.00 0.00
ATOM 922	CD	ARG A	67 158.317	8.067	7 -7.143 1.00 0.00

ATOM 923	NE A	RG A	67 1	59.015	7.958	-8.422	1.00 0.0	00
ATOM 924	CZ A	RG A	67 1	59 <i>.</i> 160	8.970	-9.274	1.00 0.0	00
ATOM 925	NH1 A	ARG A	67 1	58.658	10.165	-8.989	1.00 0.0	00
ATOM 926	NH2 A	ARG A	67 1	59.808	8.786 -	-10.417	1.00 0.	00
ATOM 927	H A	ARG A	67 1	59.458	4.429	-4.006	1.00 0.	00
ATOM 928	HA A	ARG A	67 1	60.881	5.543	-5.387	1.00 0.	00
ATOM 929	1HB	ARG A	67 1	.59.271	7.906	-4.411	1.00 0.	00
ATOM 930	2HB .	ARG A	67 1	60.449	7.991	-5.714	1.00 0.	00
ATOM 931	1HG	ARG A	67	159.045	6.097	-6.780	1.00 0.	00
ATOM 932	2HG	ARG A	67	157.792	6.629	-5.657	1.00 0.	00
ATOM 933	1HD	ARG A	67	157.253	8.045	-7.322	1.00 0.	.00
ATOM 934	2HD	ARG A	67	158.585	9.003	-6.675	1.00 0.	. 00
ATOM 935	HE	ARG A	67	159.396	7.087	-8.657	1.00 0	. 00
ATOM 936	1HH1	ARG A	67	158.168	10.311	-8.129	1.00 0	.00
ATOM 937	2HH1	ARG A	67	158.771	10.921	-9.634	1.00 0	. 00
ATOM 938	1HH2	ARG A	67	160.188	7.888	-10.637	7 1.00 0	. 00
ATOM 939	2HH2	ARG A	67	159.917	9.546	-11.058	3 1.00 0	.00
ATOM 940	N	GLY A	68	162.100	5.902	-2.78	3 1.00 0	.00
ATOM 941	CA	GLY A	68	163.216	6.295	-1.94	2 1.00 0	0.00
ATOM 942	С	GLY A	68	162.847	7.392	-0.96	3 1.00 0	00.
ATOM 943	0	GLY A	68	163.696	8. 189	-0.56	4 1.00 (0.00
ATOM 944	Н	GLY A	68	161.641	5.052	-2.61	9 1.00 (0.00
ATOM 945	1HA	GLY A	68	163.556	5.433	-1.38	9 1.00 (0.00
ATOM 946	2HA	GLY A	68	164.020	6.645	-2.57	2 1.00	0.00
ATOM 947	N	THR A	69	161.577	7.433	-0.57	6 1.00	0.00
ATOM 948	CA	THR A	69	161.096	8.441	0.36	33 1.00	0.00
ATOM 949	С	THR A	A 69	160.235	7.806	5 1.44	19 1.00	0.00
ATOM 950	0	THR A	A 69	159.141	7.310	1.1	78 1.00	0.00
ATOM 951	CB	THR A	A 69	160.297	7 9.51	5 -0.3	75 1.00	0.00

ATOM 952	0G1 7	THR A	69 160.987	9.948 -	-1.533 1.00 0.00
ATOM 953	CG2	THR A	69 160.010	10.737	0.472 1.00 0.00
ATOM 954	H '	THR A	69 160.947	6.771	-0.928 1.00 0.00
ATOM 955	HA	THR A	69 161.957	8.900	0.825 1.00 0.00
ATOM 956	HB	THR A	69 159.349	9.096	-0.682 1.00 0.00
ATOM 957	HG1	THR A	69 161.176	9.193	-2.095 1.00 0.00
ATOM 958	1HG2	THR A	69 159.249	11.336	-0.006 1.00 0.00
ATOM 959	2HG2	THR A	69 160.913	11.319	0.579 1.00 0.00
ATOM 960	3HG2	THR A	69 159.665	10.425	1.447 1.00 0.00
ATOM 961	N	ARG A	70 160.735	7.825	2.680 1.00 0.00
ATOM 962	CA	ARG A	70 160.011	7.251	3.809 1.00 0.00
ATOM 963	c	ARG A	70 158.731	8.032	4.087 1.00 0.00
ATOM 964	0	ARG A	70 158.765	9.242	4.308 1.00 0.00
ATOM 965	CB	ARG A	70 160.897	7.239	5.057 1.00 0.00
ATOM 966	CG	ARG A	70 160.228	6.616	6.272 1.00 0.00
ATOM 967	CD	ARG A	70 160.684	7.279	7.561 1.00 0.00
ATOM 968	NE	ARG A	70 162.045	6.890	7.924 1.00 0.00
ATOM 969	CZ	ARG A	70 162.802	7.562	8.789 1.00 0.00
ATOM 970	NH1	ARG A	70 162.336	8.654	9.381 1.00 0.00
ATOM 971	NH2	ARG A	70 164.028	7.139	
ATOM 972	Н	ARG A	70 161.612	8. 235	2.834 1.00 0.00
ATOM 973	HA	ARG A	A 70 159.751	6.235	3.553 1.00 0.00
ATOM 974	1HB	ARG A	A 70 161.795	6.681	4.842 1.00 0.00
ATOM 975	2HB	ARG A	A 70 161.166	8.256	5.303 1.00 0.00
ATOM 976	1HG	ARG A	A 70 159.158	6.731	6.180 1.00 0.00
ATOM 977	2HG	ARG A	A 70 160.47	7 5.566	6.309 1.00 0.00
ATOM 978	1HD	ARG .	A 70 160.650	0 8.351	7.431 1.00 0.00
ATOM 979	2HD	ARG .	A 70 160.01	3 6.992	8.356 1.00 0.00
ATOM 980	HE	ARG	A 70 162.41	4 6.086	7.502 1.00 0.00

ATOM 981	1HH1	ARG A	70 161.412	8.979	9.178 1.00 0.00
ATOM 982	2HH1	ARG A	70 162.909	9.154	10.030 1.00 0.00
ATOM 983	1HH2	ARG A	70 164.384	6.316	8.621 1.00 0.00
ATOM 984	2HH2	ARG A	70 164.597	7.643	9.714 1.00 0.00
ATOM 985	N	TYR A	71 157.602	7.330	4.076 1.00 0.00
ATOM 986	CA	TYR A	71 156.310	7.957	4.327 1.00 0.00
ATOM 987	C	TYR A	71 155.770	7.560	5.696 1.00 0.00
ATOM 988	0	TYR A	71 155.270	8.400	6.446 1.00 0.00
ATOM 989	CB	TYR A	71 155.309	7.566	3.238 1.00 0.00
ATOM 990	CG	TYR A	71 155.424	8.400	1.981 1.00 0.00
ATOM 991	CD1	TYR A	71 155.529	9.784	2.050 1.00 0.00
ATOM 992	CD2	TYR A	71 155.426	7.802	0.727 1.00 0.00
ATOM 993	CE1	TYR A	71 155.635	10.548	0.905 1.00 0.00
ATOM 994	CE2	TYR A	71 155.532	8.561	-0.424 1.00 0.00
ATOM 995	CZ	TYR A	71 155.635	9.933	-0.330 1.00 0.00
ATOM 996	ОН	TYR A	71 155.740	10.691	-1.473 1.00 0.00
ATOM 997	Н	TYR A	71 157.639	6.368	3.893 1.00 0.00
ATOM 998	HA	TYR A	71 156.451	9.028	4.306 1.00 0.00
ATOM 999	1HB	TYR A	71 155.468	6.533	2.966 1.00 0.00
ATOM 1000	2HB	TYR A	71 154.306	7.681	3.623 1.00 0.00
ATOM 1001	HD1	TYR A	71 155.529	10.262	3.018 1.00 0.00
ATOM 1002	HD2	TYR A	71 155.344	6.728	0.657 1.00 0.00
ATOM 1003	HE1	TYR A	71 155.716	11.623	0.978 1.00 0.00
ATOM 1004	HE2	TYR A	71 155.531	8.078	-1.390 1.00 0.00
ATOM 1005	5 НН	TYR A	71 156.629	10.616	-1.827 1.00 0.00
ATOM 1006	5 N	PHE A	72 155.873	6.274	6.017 1.00 0.00
ATOM 1007	7 CA	PHE A	72 155.395	5.765	7.298 1.00 0.00
ATOM 1008	3 C	PHE A	72 156.315	4.669	7.825 1.00 0.00
ATOM 1009	9 0	PHE A	72 157.106	4.095	7.077 1.00 0.00

ATOM 1010 CB	PHE A 72	2 152 060	5.226	7.156 1.00 0.00
ATOM TOTO CB		2 155.909	0.220	1.100 T.00 0.00
ATOM 1011 CG	PHE A 72	2 153.833	4.157	6.110 1.00 0.00
ATOM 1012 CD1	PHE A 7	2 153.929	2.818	6.453 1.00 0.00
ATOM 1013 CD2	PHE A 7	2 153.609	4.491	4.785 1.00 0.00
ATOM 1014 CE1	PHE A 7	2 153.804	1.832	5.493 1.00 0.00
ATOM 1015 CE2	PHE A 7	2 153.483	3.510	3.820 1.00 0.00
ATOM 1016 CZ	PHE A 7	2 153.581	2.178	4.174 1.00 0.00
ATOM 1017 H	PHE A 7	72 156.281	5.653	5.379 1.00 0.00
ATOM 1018 HA	PHE A 7	72 155.392	6.585	8.001 1.00 0.00
ATOM 1019 1HE	B PHE A 7	72 153.655	4.809	8.101 1.00 0.00
ATOM 1020 2HE	B PHE A	72 153.311	6.039	6.890 1.00 0.00
ATOM 1021 HD	PHE A	72 154.104	2.546	7.484 1.00 0.00
ATOM 1022 HD2	2 PHE A	72 153.533	5.532	4.507 1.00 0.00
ATOM 1023 HE	1 PHE A	72 153.881	0.792	5.773 1.00 0.00
ATOM 1024 HE	2 PHE A	72 153.309	3.784	2.789 1.00 0.00
ATOM 1025 HZ	PHE A	72 153.483	1.410	3.423 1.00 0.00
ATOM 1026 N	THR A	73 156.207	4.384	9.119 1.00 0.00
ATOM 1027 CA	THR A	73 157.029	3.357	9.747 1.00 0.00
ATOM 1028 C	THR A	73 156.250	2.054	9.899 1.00 0.00
ATOM 1029 0	THR A	73 155.248	1.997	10.611 1.00 0.00
ATOM 1030 CE	3 THR A	73 157.520	3.832	11.114 1.00 0.00
ATOM 1031 OC	G1 THR A	73 156.507	4.562	11.785 1.00 0.00
ATOM 1032 CO	G2 THR A	73 158.746	4.716	11.036 1.00 0.00
ATOM 1033 H	THR A	73 155.558	4.877	9.665 1.00 0.00
ATOM 1034 H	A THR A	73 157.882	3.180	9.110 1.00 0.00
ATOM 1035 H	B THR A	73 157.771	2.969	11.716 1.00 0.00
ATOM 1036 H	G1 THR A	73 156.474	4.291	12.706 1.00 0.00
ATOM 1037 1	HG2 THR A	73 159.529	4.199	10.501 1.00 0.00
ATOM 1038 2	HG2 THR A	73 159.086	4.949	12.034 1.00 0.00

ATOM 1039	3HG2	THR A	73 15	8.498	5.630	10.517 1.00 0.00
ATOM 1040	N	CYS A	74 15	6.717	1.009	9.222 1.00 0.00
ATOM 1041	CA	CYS A	74 15	6.065	-0.294	9.281 1.00 0.00
ATOM 1042	С	CYS A	74 15	57.095	-1.417	9.320 1.00 0.00
ATOM 1043	0	CYS A	74 15	58.301	-1.169	9.289 1.00 0.00
ATOM 1044	CB	CYS A	74 1	55.136	-0.478	8.080 1.00 0.00
ATOM 1045	SG	CYS A	74 1	53.445	0.096	8.360 1.00 0.00
ATOM 1046	Н	CYS A	74 1	57.521	1.117	8.670 1.00 0.00
ATOM 1047	HA	CYS A	74 1	55.478	-0.329	10.188 1.00 0.00
ATOM 1048	1HB	CYS A	74 1	55.534	0.072	7.241 1.00 0.00
ATOM 1049	2HB	CYS A	74]	.55.091	-1.527	7.828 1.00 0.00
ATOM 1050	HG	CYS A	74]	53.194	-0.147	9.254 1.00 0.00
ATOM 1051	N	ALA A	7 5 3	156.613	-2.654	9.386 1.00 0.00
ATOM 1052	CA	ALA A	7 5	157.492	-3.816	9.428 1.00 0.00
ATOM 1053	С	ALA A	75	158. 208	-4.011	8.096 1.00 0.00
ATOM 1054	. 0	ALA A	75	157.739	-3.552	7.055 1.00 0.00
ATOM 1055	CB	ALA A	. 75	156.700	-5.062	9.791 1.00 0.00
ATOM 1056	6 H	ALA A	75	155.642	-2.787	9.407 1.00 0.00
ATOM 1057	7 HA	ALA A	75	158.229	-3.648	10.200 1.00 0.00
ATOM 1058	8 1H	3 ALA A	75	157.137	z –5.921	9.302 1.00 0.00
ATOM 105	9 2HI	3 ALA A	A 75	155.676	6 -4.945	9.467 1.00 0.00
ATOM 106	0 3H	B ALA	A 75	156.725	5 -5.206	5 10.861 1.00 0.00
ATOM 106	1 N	LEU	A 76	159.347	7 -4.69	8.137 1.00 0.00
ATOM 106	2 CA	LEU .	A 76	160.129	9 -4.95	2 6.933 1.00 0.00
ATOM 106	3 C	LEU	A 76	159.41	9 -5.95	3 6.027 1.00 0.00
ATOM 106	64 0	LEU	A 76	158.84	6 -6.93	4 6.499 1.00 0.00
ATOM 106	55 CE	LEU	A 76	161.51	8 -5.47	6 7.303 1.00 0.00
ATOM 106	66 CC	E LEU	A 76	162.48	67 -4.42	7.837 1.00 0.00
ATOM 10	67 CI)1 LEU	A 76	163.41	.3 -5.02	8.882 1.00 0.00

I	ATOM 1068	3 CD2	LEU A	76 16	3. 291	-3.812	6.698 1.00 0.00
1	ATOM 1069	9 H	LEU A	76 15	9.669	-5.036	8.997 1.00 0.00
,	ATOM 1070	O HA	LEU A	76 16	0.236	-4.017	6.402 1.00 0.00
	ATOM 107	1 1HB	LEU A	76 16	51.401	-6.242	8.056 1.00 0.00
	ATOM 107	2 2HB	LEU A	76 16	61.956	-5.923	6.425 1.00 0.00
	ATOM 107	3 HG	LEU A	76 16	61.923	-3.629	8.309 1.00 0.00
	ATOM 107	4 1HD1	LEU A	76 1	63.579	-6.067	8.655 1.00 0.00
	ATOM 107	'5 2HD1	LEU A	76 1	62.961	-4.934	9.858 1.00 0.00
	ATOM 107	76 3HD1	LEU A	76 1	64.357	-4.499	8.873 1.00 0.00
	ATOM 107	77 1HD2	LEU A	76 1	62.802	-2.913	6.350 1.00 0.00
	ATOM 107	78 2HD2	LEU A	76 1	63.359	-4.522	5.886 1.00 0.00
	ATOM 10'	79 3HD2	2 LEU A	76 1	64.284	-3.568	7.046 1.00 0.00
	ATOM 10	80 N	LYS A	77 1	159.463	-5.699	4.723 1.00 0.00
	ATOM 10	81 CA	LYS A	77	158.826	-6.579	3.751 1.00 0.00
	ATOM 10	82 C	LYS A	77	157.321	-6.654	3.991 1.00 0.00
	ATOM 10	83 0	LYS A	77	156.714	-7.719	3.867 1.00 0.00
	ATOM 10)84 CB	LYS A	77	159.436	-7.980	3.821 1.00 0.00
	ATOM 10)85 CG	LYS A	77	160.953	3 -7.988	3.712 1.00 0.00
	ATOM 10	086 CD	LYS A	77	161.41	L -7.675	2.296 1.00 0.00
	ATOM 10	087 CE	LYS A	. 77	162.908	3 -7.415	2.240 1.00 0.00
	ATOM 10	088 NZ	LYS A	77	163.66	7 -8.625	1.820 1.00 0.00
	ATOM 1	089 H	LYS A	77	159.93	7 -4.902	4.408 1.00 0.00
	ATOM 1	090 HA	LYS A	77	159.00	2 -6.168	2.768 1.00 0.00
	ATOM 1	091 1H	B LYS A	A 77	159.16	3 -8.433	4.762 1.00 0.00
	ATOM 1	.092 2H	B LYS A	A 77	159.03	66 –8.576	3.014 1.00 0.00
	ATOM 1	.093 1H	G LYS	A 77	161.35	57 -7.245	4.383 1.00 0.00
	ATOM 1	1094 2H	G LYS	A 77	161.31	9 -8.966	3.991 1.00 0.00
	ATOM J	L095 1H	D LYS	A 77	161.17	77 -8.513	1.658 1.00 0.00
	ATOM 3	1096 2F	D LYS	A 77	160.88	88 -6.797	1.945 1.00 0.00

ATOM 1097	1HE	LYS A 77	7 163.096	-6.620	1.534 1.00 0.00
ATOM 1098	2HE	LYS A 77	7 163.244	-7.112	3.221 1.00 0.00
ATOM 1099	1HZ	LYS A 7	7 163.116	-9.483	2.031 1.00 0.00
ATOM 1100	2HZ	LYS A 7	7 164.572	-8.674	2.329 1.00 0.00
ATOM 1101	ЗНΖ	LYS A 7	7 163.857	-8.590	0.798 1.00 0.00
ATOM 1102	N	LYS A 7	8 156.724	-5.518	4.334 1.00 0.00
ATOM 1103	CA	LYS A 7	8 155.290	-5.455	4.591 1.00 0.00
ATOM 1104	С	LYS A 7	8 154.730	-4.086	4.219 1.00 0.00
ATOM 1105	0	LYS A 7	'8 153.888	-3.534	4.928 1.00 0.00
ATOM 1106	CB	LYS A 7	78 155.001	-5.755	6.063 1.00 0.00
ATOM 1107	CG	LYS A 7	78 155.529	-7.104	6.524 1.00 0.00
ATOM 1108	CD	LYS A 7	78 155.130	-7.398	7.961 1.00 0.00
ATOM 1109	CE	LYS A	78 153.930	-8.331	8.026 1.00 0.00
ATOM 1110	NZ	LYS A	78 152.998	-7.961	9.126 1.00 0.00
ATOM 1111	H	LYS A	78 157.261	-4.702	4.417 1.00 0.00
ATOM 1112	HA	LYS A	78 154.811	-6.205	3.980 1.00 0.00
ATOM 1113	1HB	LYS A	78 155.457	-4.988	6.671 1.00 0.00
ATOM 1114	2HB	LYS A	78 153.932	-5.739	6.219 1.00 0.00
ATOM 1115	1HG	LYS A	78 155.126	-7.875	5.884 1.00 0.00
ATOM 1116	2HG	LYS A	78 156.607	-7.101	6.452 1.00 0.00
ATOM 1117	1HD	LYS A	78 155.962	-7.864	8.468 1.00 0.00
ATOM 1118	2HD	LYS A	78 154.879	-6.470	8.452 1.00 0.00
ATOM 1119) 1HE	LYS A	78 153.40	-8.283	7.086 1.00 0.00
ATOM 1120) 2HE	LYS A	78 154.283	3 -9.339	8.188 1.00 0.00
ATOM 1123	ı 1HZ	LYS A	78 152.59	1 -8.817	9.553 1.00 0.00
ATOM 1122	2 2HZ	LYS A	78 152.22	5 -7.371	8.757 1.00 0.00
ATOM 112:	3 3HZ	Z LYS A	78 153.50	5 -7.426	9.860 1.00 0.00
ATOM 1124	4 N	ALA A	79 155.20	2 -3.543	3.101 1.00 0.00
ATOM 112	5 CA	ALA A	79 154.74	9 –2.238	2.635 1.00 0.00

		AT A A	70 I	E4 E01	-2.223	1.118 1.00 0.00
ATOM 1126	С	ALA A				
ATOM 1127	0	ALA A	79	155.576	-2.254	0.381 1.00 0.00
ATOM 1128	CB	ALA A	79	155.718	-1.153	3.077 1.00 0.00
ATOM 1129	Н	ALA A	79	155.872	-4.031	2.578 1.00 0.00
ATOM 1130	HA	ALA A	79	153.789	-2.038	3.088 1.00 0.00
ATOM 1131	1HB	ALA A	79	155. 189	-0.216	3.177 1.00 0.00
ATOM 1132	2HB	ALA A	79	156.501	-1.048	2.341 1.00 0.00
ATOM 1133	ЗНВ	ALA A	79	156. 152	-1.425	4.029 1.00 0.00
ATOM 1134	N	LEU A	80	153.345	-2.174	0.658 1.00 0.00
ATOM 1135	CA	LEU A	80	153.058	-2.154	-0.771 1.00 0.00
ATOM 1136	С	LEU A	80	152.216	-0.937	-1.140 1.00 0.00
ATOM 1137	0	LEU A	80	151.022	-0.882	-0.847 1.00 0.00
ATOM 1138	СВ	LEU A	80	152.330	-3.434	-1.184 1.00 0.00
ATOM 1139	CG	LEU A	80	151.917	-3.501	-2.655 1.00 0.00
ATOM 1140	CD1	LEU A	80	153.133	-3.730	-3.540 1.00 0.00
ATOM 1141	CD2	LEU A	80	150.885	-4.597	-2.871 1.00 0.00
ATOM 1142	Н	LEU A	80	152.600	-2.151	1.295 1.00 0.00
ATOM 1143	HA	LEU A	80	153.998	-2.100	-1.298 1.00 0.00
ATOM 1144	1HB	LEU A	. 80	152.976	-4.275	-0.975 1.00 0.00
ATOM 1145	2HE	LEU A	. 80	151.439	-3.528	-0.580 1.00 0.00
ATOM 1146	HG	LEU A	80	151.471	-2.559	-2.939 1.00 0.00
ATOM 1147	1HI)1 LEU A	80	153.887	-4.268	-2.984 1.00 0.00
ATOM 1148	2HI	O1 LEU A	80	153.531	-2.777	-3.858 1.00 0.00
ATOM 1149) 3HI	O1 LEU A	80 A	152.845	-4.307	-4.407 1.00 0.00
ATOM 1150) 1H	O2 LEU	A 80	149.893	3 -4.181	-2.770 1.00 0.00
ATOM 115	L 2H	D2 LEU	A 80	0 151.027	7 -5.374	-2.134 1.00 0.00
ATOM 115	2 3H	D2 LEU .	A 8	0 151.002	2 -5.012	-3.860 1.00 0.00
ATOM 115	3 N	PHE	A 8	1 152.84	8 0.039	-1.786 1.00 0.00
ATOM 115	4 CA	PHE	A 8	1 152.15	7 1.256	-2.195 1.00 0.00

-3.437 1.00 0.00 1.009 PHE A 81 151.307 C ATOM 1155 -4.335 1.00 0.00 0.26781 151.705 PHE A 0 ATOM 1156 -2.469 1.00 0.002.373 PHE A 81 153.167 ATOM 1157 CB -1.249 1.00 0.0081 153.932 2.803 PHE A ATOM 1158 CG -0.564 1.00 0.003.955 81 153.577 PHE A ATOM 1159 CD1 -0.788 1.00 0.00 2.057 81 155.004 CD2 PHE A ATOM 1160 0.558 1.00 0.00 4.35481 154.278 PHE A CE1 ATOM 1161 0.334 1.00 0.00 2.451 81 155.708 PHE A CE2 ATOM 1162 1.008 1.00 0.00 3.600 81 155.345 PHE A CZATOM 1163 -1.991 1.00 0.00 -0.062PHE A 81 153.800 ATOM 1164 Η -1.385 1.00 0.001.559 81 151.511 PHE A ATOM 1165 HA -3.203 1.00 0.002.030 81 153.881 PHE A ATOM 1166 1HB $-2.856 \ 1.00 \ 0.00$ 3.235 PHE A 81 152.644 ATOM 1167 2HB $-0.915 \ 1.00 \ 0.00$ 4.54481 152.742 ATOM 1168 HD1 PHE A $-1.315 \ 1.00 \ 0.00$ 1.158 PHE A 81 155.289 ATOM 1169 HD21.082 1.00 0.00 5.253 81 153.992 ATOM 1170 HE1 PHE A 0.683 1.00 0.00 81 156.543 1.860 ATOM 1171 HE2 PHE A 1.884 1.00 0.00 3.910 81 155.895 HZ PHE A ATOM 1172 -3.480 1.00 0.00 1.635 82 150.136 ATOM 1173 N VAL A -4.612 1.00 0.00 1.481 82 149.229 ATOM 1174 VAL A CA $-4.731 \ 1.00 \ 0.00$ 2.677 82 148.290 C VAL A ATOM 1175 -3.813 1.00 0.003.490 VAL A 82 148.185 ATOM 1176 0 -4.492 1.00 0.00 0.195VAL A 82 148.392 ATOM 1177 CB -4.677 1.00 0.00-1.034VAL A 82 149.267 ATOM 1178 CG1 -3.151 1.00 0.00 VAL A 82 147.673 0.150CG2 ATOM 1179 -2.734 1.00 0.002.213 VAL A 82 149.874 H ATOM 1180 -5.510 1.00 0.00 1.414 VAL A 82 149.826 ATOM 1181 HA -5.274 1.00 0.00 0.200 VAL A 82 147.648 HBATOM 1182 -3.866 1.00 0.00 -1.0951HG1 VAL A 82 149.980 ATOM 1183

-5.616 1.00 0.00 2HG1 VAL A 82 149.796 -0.961ATOM 1184 -4.680 1.00 0.00 -1.92082 148.650 3HG1 VAL A ATOM 1185 -3.261 1.00 0.0082 146.739 -0.3821HG2 VAL A ATOM 1186 -2.815 1.00 0.00 1.157 82 147.476 2HG2 VAL A ATOM 1187 -2.428 1.00 0.00-0.35782 148.293 ATOM 1188 3HG2 VAL A -5.868 1.00 0.00 83 147.610 2.775 N LYS A ATOM 1189 -6.108 1.00 0.00 3.871 LYS A 83 146.677 CA ATOM 1190 -5.206 1.00 0.00 3.754 83 145.454 C LYS A ATOM 1191 -5.212 1.00 0.002.738 83 144.760 LYS A ATOM 1192 0 -7.574 1.00 0.003.888 83 146.244 LYS A ATOM 1193 CB -8.542 1.00 0.00 4.16483 147.383 LYS A CG ATOM 1194 $-9.953 \ 1.00 \ 0.00$ 83 147.037 3.716 LYS A ATOM 1195 CD 4.712 -10.991 1.00 0.00 83 147.527 LYS A ATOM 1196 CE 4.039 -12.243 1.00 0.00 83 147.970 LYS A ATOM 1197 NZ $-6.562 \ 1.00 \ 0.00$ 2.095 83 147.736 LYS A ATOM 1198 Η -5.882 1.00 0.00 4.796 83 147.188 LYS A ATOM 1199 HA -7.822 1.00 0.00 2.929 83 145.815 LYS A ATOM 1200 1HB -7.708 1.00 0.00 4.653 83 145.494 LYS A ATOM 1201 2HB-8.552 1.00 0.00 5.225 83 147.585 LYS A ATOM 1202 1HG -8.210 1.00 0.00 3.631 83 148.262 LYS A 2HG ATOM 1203 2.760 -10.141 1.00 0.00 83 147.501 ATOM 1204 1HD LYS A 3.620 -10.037 1.00 0.00 83 145.964 ATOM 1205 2HD LYS A 5.394 -11.225 1.00 0.00 83 146.723 ATOM 1206 1HE LYS A 5.266 -10.576 1.00 0.00 2HE LYS A 83 148.356 ATOM 1207 3.137 -12.361 1.00 0.00 1HZ LYS A 83 147.466 ATOM 1208 3.849 -12.204 1.00 0.00 83 148.992 2HZ LYS A ATOM 1209 4.646 -13.064 1.00 0.00 83 147.773 3HZ LYS A ATOM 1210 4.803 -4.432 1.00 0.00 84 145.197 LEU A N ATOM 1211 4.823 -3.523 1.00 0.00 LEU A 84 144.059 CA ATOM 1212

ATOM 1213	С	LEU A	84 142.750	4.654	-4.288 1.00 0.00
ATOM 1214	0	LEU A	84 141.796	4.062	-3.782 1.00 0.00
ATOM 1215	CB	LEU A	84 144.039	6.133	-2.733 1.00 0.00
ATOM 1216	CG	LEU A	84 142.825	6.326	-1.822 1.00 0.00
ATOM 1217	CD1	LEU A	84 142.924	5.419	-0.605 1.00 0.00
ATOM 1218	CD2	LEU A	84 142.705	7.781	-1.396 1.00 0.00
ATOM 1219	Н	LEU A	84 145.789	5.582	-4.474 1.00 0.00
ATOM 1220	HA	LEU A	84 144.169	3.999	-2.834 1.00 0.00
ATOM 1221	1HB	LEU A	84 144.931	6.175	-2.125 1.00 0.00
ATOM 1222	2HB	LEU A	84 144.066	6.952	-3.437 1.00 0.00
ATOM 1223	HG	LEU A	84 141.930	6.059	-2.365 1.00 0.00
ATOM 1224	1HD1	LEU A	84 141.946	5.308	-0.159 1.00 0.00
ATOM 1225	2HD1	LEU A	84 143.600	5.855	0.115 1.00 0.00
ATOM 1226	3HD	LEU A	84 143.294	4.450	-0.906 1.00 0.00
ATOM 1227	1HD2	2 LEU A	84 143.646	8.115	-0.986 1.00 0.00
ATOM 1228	2HD:	2 LEU A	84 141.931	7.874	-0.648 1.00 0.00
ATOM 1229	3HD	2 LEU A	84 142.451	8.386	-2.254 1.00 0.00
ATOM 1230	N	LYS A	85 142.712	5.177	-5.508 1.00 0.00
ATOM 1231	CA	LYS A	85 141.521	5.083	-6.343 1.00 0.00
ATOM 1232	c C	LYS A	85 141.210	3.630	-6.689 1.00 0.00
ATOM 1233	3 0	LYS A	85 140.057	3.274	-6.936 1.00 0.00
ATOM 1234	L CB	LYS A	85 141.707	5.896	-7.627 1.00 0.00
ATOM 1235	5 CG	LYS A	85 143.008	5.597	-8.352 1.00 0.00
ATOM 1236	5 CD	LYS A	85 142.945	6.026	-9.810 1.00 0.00
ATOM 123	7 CE	LYS A	85 142.666	4.847	-10.728 1.00 0.00
ATOM 123	8 NZ	LYS A	85 143.868	4.463	3 -11.521 1.00 0.00
ATOM 123	9 H	LYS A	85 143.505	5.637	7 -5.856 1.00 0.00
ATOM 124	O HA	LYS A	85 140.693	5.494	4 -5.786 1.00 0.00
ATOM 124	1 1H	B LYS A	85 140.888	5.68	-8.297 1.00 0.00

-7.379 1.00 0.00 6.94785 141.691 ATOM 1242 2HB LYS A -7.866 1.00 0.00 6.131 85 143.811 LYS A ATOM 1243 1HG -8.307 1.00 0.00 4.535 85 143.200 LYS A 2HG ATOM 1244 -9.927 1.00 0.00 85 142.156 6.754 LYS A 1HD ATOM 1245 6.470 -10.086 1.00 0.00 85 143.890 LYS A ATOM 1246 2HD4.003 -10.129 1.00 0.00 85 142.358 LYS A 1HE ATOM 1247 5.116 -11.406 1.00 0.00 85 141.869 2HE LYS A ATOM 1248 3.427 -11.599 1.00 0.00 85 143.929 LYS A 1HZ ATOM 1249 4.815 -11.058 1.00 0.00 85 144.729 LYS A 2HZ ATOM 1250 4.869 -12.477 1.00 0.00 85 143.810 LYS A ATOM 1251 3HZ $-6.705 \ 1.00 \ 0.00$ 2.79486 142.243 SER A ATOM 1252 N -7.019 1.00 0.00 1.380 86 142.077 SER A ATOM 1253 CA -5.747 1.00 0.0086 142.051 0.539SER A ATOM 1254 C -5.743 1.00 0.00 -0.61386 142.486 ATOM 1255 0 SER A -7.936 1.00 0.00 0.90486 143.205 ATOM 1256 CB SER A -9.038 1.00 0.00 1.779 SER A 86 143.371 ATOM 1257 OG. $-6.500 \ 1.00 \ 0.00$ 86 143.139 3.136 ATOM 1258 Η SER A -7.533 1.00 0.00 1.264 86 141.134 HA SER A ATOM 1259 -7.378 1.00 0.00 0.869 86 144.128 ATOM 1260 1HB SER A -8.308 1.00 0.00 -0.08386 142.972 ATOM 1261 SER A 2HB -9.406 1.00 0.00 1.998 SER A 86 142.512 HG ATOM 1262 -4.669 1.00 0.00 1.122CYS A 87 141.537 ATOM 1263 N -3.390 1.00 0.00 0.427CYS A 87 141.454 ATOM 1264 CA $-2.970 \ 1.00 \ 0.00$ 0.231C CYS A 87 140.001 ATOM 1265 -3.073 1.00 0.00 1.148 CYS A 87 139.186 0 ATOM 1266 -2.311 1.00 0.00 1.208 CYS A 87 142.207 ATOM 1267 CB -2.501 1.00 0.00 1.180 CYS A 87 144.005 ATOM 1268 SG -4.735 1.00 0.00 2.04287 141.206 CYS A H ATOM 1269 -3.508 1.00 0.00-0.54287 141.916 CYS A ATOM 1270 HA

-2.337 1.00 0.00 2.239 87 141.891 CYS A ATOM 1271 1HB-1.344 1.00 0.000.788 87 141.972 CYS A ATOM 1272 2HB-1.627 1.00 0.00 87 144.394 1.095 CYS A ATOM 1273 HG -2.498 1.00 0.00 -0.97188 139.683 ARG A ATOM 1274 N -2.063 1.00 0.00 -1.28888 138.328 ARG A ATOM 1275 CA -0.563 1.00 0.00 -1.57588 138.292 ARG A ATOM 1276 C -0.010 1.00 0.00 88 139.234 -2.142ARG A ATOM 1277 0 -2.839 1.00 0.00 -2.49288 137.790 ARG A ATOM 1278 CB -4.051 1.00 0.00 88 136.954 -2.109ARG A ATOM 1279 CG -3.902 1.00 0.00-2.55888 135.509 CD ARG A ATOM 1280 -4.638 1.00 0.00 88 135.240 -3.791ARG A ATOM 1281 NE -4.470 1.00 0.00 -4.53188 134.146 ATOM 1282 CZARG A -3.594 1.00 0.00 -4.16888 133.219 ARG A ATOM 1283 NH1 -5.181 1.00 0.00 88 133.980 -5.638 ARG A NH2 ATOM 1284 -2.441 1.00 0.00-1.66088 140.377 ATOM 1285 Η ARG A -2.269 1.00 0.00-0.43088 137.706 ARG A ATOM 1286 HA -3.178 1.00 0.00 -3.08888 138.623 ATOM 1287 ARG A 1HB -2.178 1.00 0.00 -3.08788 137.176 ARG A ATOM 1288 2HB -4.167 1.00 0.00 -1.03588 136.976 ARG A 1HG ATOM 1289 -4.929 1.00 0.00 -2.57588 137.378 ARG A ATOM 1290 2HG $-2.854 \ 1.00 \ 0.00$ -2.72488 135.304 ARG A ATOM 1291 1HD -4.275 1.00 0.00 -1.77888 134.862 ARG A ATOM 1292 2HD -5.292 1.00 0.00 -4.08288 135.910 ARG A HE ATOM 1293 -3.054 1.00 0.00-3.3341HH1 ARG A 88 133.338 ATOM 1294 -3.472 1.00 0.00-4.7282HH1 ARG A 88 132.399 ATOM 1295 $-5.843 \ 1.00 \ 0.00$ 88 134.676 -5.9171HH2 ARG A ATOM 1296 -5.055 1.00 0.00 88 133.159 -6.1942HH2 ARG A ATOM 1297 0.118 1.00 0.00 -1.18789 137.198 PRO A N ATOM 1298 1.560 1.00 0.00 -1.408PRO A 89 137.048 ATOM 1299 CA

ATOM 1300 C	C PI	RO A	89 13	37.285	-2.863	1.950 1.00 0.00
ATOM 1301 C) P	RO A	89 13	36.808	-3.781	1.282 1.00 0.00
ATOM 1302 (CB P	RO A	89 13	35.594	-1.013	1.832 1.00 0.00
ATOM 1303 (CG P	RO A	89 13	35.252	-0.054	0.744 1.00 0.00
ATOM 1304 (CD P	PRO A	89 1	36.026	-0.505	-0.463 1.00 0.00
ATOM 1305	HA F	PRO A	89 1	37.710	-0.771	2.128 1.00 0.00
ATOM 1306	1HB F	PRO A	89 1	34.967	-1.892	1.797 1.00 0.00
ATOM 1307	2HB I	PRO A	89 1	35.520	-0.549	2.803 1.00 0.00
ATOM 1308	1HG I	PRO A	89 1	34.191	-0.090	0.545 1.00 0.00
ATOM 1309	2HG	PRO A	89 1	35.548	0.945	1.028 1.00 0.00
ATOM 1310	1HD	PRO A	89 1	135.436	-1.189	-1.056 1.00 0.00
ATOM 1311	2HD	PRO A	89	136.329	0.346	-1.055 1.00 0.00
ATOM 1312	N	ASP A	90	138.026	-3.066	3.035 1.00 0.00
ATOM 1313	CA	ASP A	90	138.326	-4.409	3.514 1.00 0.00
ATOM 1314	С	ASP A	90	137.405	-4.795	4.667 1.00 0.00
ATOM 1315	0	ASP A	90	137.387	-4.137	5.706 1.00 0.00
ATOM 1316	СВ	ASP A	90	139.786	-4.499	3.961 1.00 0.00
ATOM 1317	CG	ASP A	90	140.288	3 -5.929	4.013 1.00 0.00
ATOM 1318	OD1	ASP A	90	139.463	3 -6.840	4.238 1.00 0.00
ATOM 1319	OD2	ASP A	90	141.506	6 -6.138	3.828 1.00 0.00
ATOM 1320	Н	ASP A	90	138.37	8 -2.294	3.525 1.00 0.00
ATOM 1321	HA	ASP A	90	138.16	7 -5.097	2.696 1.00 0.00
ATOM 1322	1HB	ASP A	A 90	140.40	3 -3.947	3.268 1.00 0.00
ATOM 1323	2HB	ASP A	A 90	139.88	4.067	4.946 1.00 0.00
ATOM 1324	N	SER	A 91	136.64	0 -5.865	4.475 1.00 0.00
ATOM 1325	CA	SER .	A 91	135.71	6.338	5.498 1.00 0.00
ATOM 1326	5 C	SER	A 91	136.32	21 -7.495	6.286 1.00 0.00
ATOM 1327	7 0	SER	A 91	135.60	06 -8.375	6.764 1.00 0.00
ATOM 1328	B CB	SER	A 93	1 134.39	96 -6.776	4.860 1.00 0.00

ATOM 1329 OG	SER A 91	133.310	-6.584	5.749 1.00 0.00
ATOM 1330 H	SER A 91	136.699	-6.348	3.624 1.00 0.00
ATOM 1331 HA	SER A 91	135.523	-5.519	6.175 1.00 0.00
ATOM 1332 1HB	SER A 93	1 134. 221	-6.196	3.966 1.00 0.00
ATOM 1333 2HB	SER A 9	1 134.454	-7.824	4.603 1.00 0.00
ATOM 1334 HG	SER A 9	1 133.107	-7.412	6.191 1.00 0.00
ATOM 1335 N	ARG A 9	2 137.643	-7.487	6.418 1.00 0.00
ATOM 1336 CA	ARG A 9	2 138.345	-8.536	7.149 1.00 0.00
ATOM 1337 C	ARG A 9	2 137.999	-8.490	8.633 1.00 0.00
ATOM 1338 0	ARG A 9	2 137.991	-9.519	9.310 1.00 0.00
ATOM 1339 CB	ARG A 9	2 139.856	-8.395	6.960 1.00 0.00
ATOM 1340 CG	ARG A	2 140.387	-9.117	5.733 1.00 0.00
ATOM 1341 CD	ARG A	92 140.922	-10.495	6.085 1.00 0.00
ATOM 1342 NE	ARG A	92 139.849	-11.470	6.267 1.00 0.00
ATOM 1343 CZ	ARG A	92 140.030	-12.682	6.784 1.00 0.00
ATOM 1344 NH1	ARG A	92 141.238	3 -13.075	7.169 1.00 0.00
ATOM 1345 NH2	ARG A	92 138.999	-13.508	6.915 1.00 0.00
ATOM 1346 H	ARG A	92 138.16	-6.758	6.014 1.00 0.00
ATOM 1347 HA	ARG A	92 138.02	9 -9.488	6.747 1.00 0.00
ATOM 1348 1HE	3 ARG A	92 140.09	9 -7.347	6.869 1.00 0.00
ATOM 1349 2H	B ARG A	92 140.35	5 -8.796	
ATOM 1350 1HO	G ARG A	92 139.58	6 -9.225	5.016 1.00 0.00
ATOM 1351 2H	G ARG A	92 141.18	3 -8.530	5.299 1.00 0.00
ATOM 1352 1H	D ARG A	92 141.56	88 -10.830	5.287 1.00 0.00
ATOM 1353 2H	D ARG A	92 141.49	91 -10.423	7.001 1.00 0.00
ATOM 1354 HE	ARG A	92 138.94	47 -11.206	5.990 1.00 0.00
ATOM 1355 1H	IH1 ARG A	92 142.0	19 -12.458	3 7.074 1.00 0.00
				8 7.557 1.00 0.00
ATOM 1357 1F	H2 ARG A	92 138.0	87 -13.21	7 6.626 1.00 0.00

7.303 1.00 0.00 92 139.135 -14.418 2HH2 ARG A ATOM 1358 9.133 1.00 0.00 93 137.713 -7.293PHE A N ATOM 1359 10.538 1.00 0.00 93 137.366 -7.114CA PHE A ATOM 1360 10.683 1.00 0.00 93 136.006 -6.439PHE A C ATOM 1361 11.646 1.00 0.00 -5.71393 135.761 0 PHE A ATOM 1362 11.248 1.00 0.00 -6.28493 138.437 ATOM 1363 PHE A CB 11.447 1.00 0.00 -7.01993 139.732 PHE A ATOM 1364 CG 10.360 1.00 0.00 93 140.508 -7.389PHE A ATOM 1365 CD1 12.721 1.00 0.00 -7.34093 140.173 ATOM 1366 CD2 PHE A 10.540 1.00 0.00 -8.06493 141.701 ATOM 1367 CE1 PHE A 12.907 1.00 0.00 -8.01593 141.365 ATOM 1368 CE2 PHE A 11.815 1.00 0.00 -8.378PHE A 93 142.129 ATOM 1369 CZ8.543 1.00 0.00 93 137.736 -6.511PHE A Η ATOM 1370 10.995 1.00 0.00 -8.091PHE A 93 137.320 ATOM 1371 HA 10.663 1.00 0.00 93 138.644 -5.400PHE A ATOM 1372 1HB 12.219 1.00 0.00 -5.98993 138.069 2HB PHE A ATOM 1373 9.362 1.00 0.00 -7.14393 140.174 PHE A HD1ATOM 1374 13.575 1.00 0.00 -7.05793 139.576 PHE A ATOM 1375 HD29.684 1.00 0.00 93 142.296 -8.347PHE A ATOM 1376 HE1 13.905 1.00 0.00 -8.260PHE A 93 141.697 HE2 ATOM 1377 11.957 1.00 0.00 -8.90693 143.060 PHE A HZ ATOM 1378 9.719 1.00 0.00 -6.684ALA A 94 135.123 N ATOM 1379 9.741 1.00 0.00 -6.099ALA A 94 133.788 CA ATOM 1380 10.327 1.00 0.00 94 132.772 -7.072C ALA A ATOM 1381 9.909 1.00 0.00 -8.22894 132.691 ALA A 0 ATOM 1382 8.337 1.00 0.00 -5.68294 133.373 ALA A CB ATOM 1383 8.976 1.00 0.00 94 135.376 -7.271ALA A ATOM 1384 Η 10.358 1.00 0.00 -5.21494 133.822 ATOM 1385 HA ALA A 7.721 1.00 0.00 -5.5681HB ALA A 94 134.251 ATOM 1386

8.384 1.00 0.00 94 132.841 -4.743ALA A ATOM 1387 2HB 7.913 1.00 0.00 94 132.730 -6.439ALA A ATOM 1388 3HB 11.299 1.00 0.00 -6.60095 131.999 ATOM 1389 SER A N 11.944 1.00 0.00 95 130.987 -7.428SER A ATOM 1390 CA 11.194 1.00 0.00 -7.35395 129.662 SER A ATOM 1391 C 11.158 1.00 0.00 -6.30595 129.017 ATOM 1392 0 SER A 13.397 1.00 0.00 -6.99295 130.791 CB SER A ATOM 1393 13.525 1.00 0.00 -5.58495 130.890 ATOM 1394 0G SER A 11.589 1.00 0.00 -5.67095 132.110 H SER A ATOM 1395 11.928 1.00 0.00 -8.450HA SER A 95 131.338 ATOM 1396 13.735 1.00 0.00 -7.3041HB SER A 95 129.814 ATOM 1397 14.013 1.00 0.00 -7.45395 131.549 ATOM 1398 2HB SER A 14.144 1.00 0.00 95 130.226 -5.272SER A HG ATOM 1399 10.598 1.00 0.00 -8.471LEU A 96 129.260 ATOM 1400 N 9.849 1.00 0.00 -8.531LEU A 96 128.010 ATOM 1401 CA 10.295 1.00 0.00 -9.72496 127.168 ATOM 1402 C LEU A 9.512 1.00 0.00 96 126.898 -10.636 LEU A ATOM 1403 0 8.348 1.00 0.00 -8.62096 128.294 LEU A ATOM 1404 CB 7.638 1.00 0.00 -7.27596 128.449 CG LEU A ATOM 1405 7.782 1.00 0.00 96 129.872 -6.756LEU A CD1 ATOM 1406 6.170 1.00 0.00 96 128.074 -7.403LEU A CD2 ATOM 1407 10.663 1.00 0.00 96 129.818 -9.273LEU A H ATOM 1408 10.049 1.00 0.00 -7.62496 127.459 LEU A HA ATOM 1409 8.209 1.00 0.00 96 129.204 -9.186LEU A ATOM 1410 1HB7.881 1.00 0.00 -9.15896 127.483 LEU A ATOM 1411 2HB 8.093 1.00 0.00 96 127.785 -6.556 ATOM 1412 HG LEU A 6.893 1.00 0.00 -6.21096 130.148 1HD1 LEU A ATOM 1413 7.917 1.00 0.00 2HD1 LEU A -7.589 96 130.546 ATOM 1414 8.639 1.00 0.00 96 129.932 -6.1023HD1 LEU A ATOM 1415

5.603 1.00 0.00 96 128.564 -6.6261HD2 LEU A ATOM 1416 6.063 1.00 0.00 -7.30596 127.003 2HD2 LEU A ATOM 1417 5.800 1.00 0.00 96 128.385 -8.3683HD2 LEU A ATOM 1418 11.559 1.00 0.00 -9.711GLN A 97 126.757 N ATOM 1419 12.110 1.00 0.00 97 125.947 -10.790 ATOM 1420 GLN A CA 11.576 1.00 0.00 97 124.516 -10.728 ATOM 1421 GLN A C 10.932 1.00 0.00 97 124.045 -11.665 0 GLN A ATOM 1422 13.640 1.00 0.00 97 125.941 -10.721 GLN A ATOM 1423 CB 14.306 1.00 0.00 97 126.526 -11.955 GLN A ATOM 1424 CG 15.549 1.00 0.00 97 127.328 -11.623 GLN A ATOM 1425 CD 15.519 1.00 0.00 97 128.215 -10.768 GLN A 0E1 ATOM 1426 16.650 1.00 0.00 97 127.020 -12.297 GLN A ATOM 1427 NE2 12.134 1.00 0.00 97 127.004 -8.958 GLN A H ATOM 1428 11.804 1.00 0.00 97 126.390 -11.726 GLN A HA ATOM 1429 13.952 1.00 0.00 97 126.519 -9.863 GLN A 1HB ATOM 1430 13.982 1.00 0.00 97 124.924 -10.602 2HBGLN A ATOM 1431 14.585 1.00 0.00 97 125.719 -12.616 GLN A ATOM 1432 1HG 13.601 1.00 0.00 97 127.173 -12.457 GLN A 2HG ATOM 1433 16.600 1.00 0.00 97 126.303 -12.963 1HE2 GLN A ATOM 1434 17.468 1.00 0.00 97 127.523 -12.101 2HE2 GLN A ATOM 1435 11.839 1.00 0.00 98 123.805 -9.618PRO A ATOM 1436 N 11.383 1.00 0.00 -9.44198 122.423 PRO A ATOM 1437 CA 9.882 1.00 0.00 -9.18598 122.336 PRO A ATOM 1438 C 9.190 1.00 0.00 -9.77298 121.504 PRO A ATOM 1439 0 12.163 1.00 0.00 -8.21598 121.948 ATOM 1440 CB PRO A 12.434 1.00 0.00 98 123.189 -7.437PRO A ATOM 1441 CG 12.603 1.00 0.00 98 124.289 -8.450PRO A ATOM 1442 CD 11.637 1.00 0.00 98 121.811 -10.293 ATOM 1443 HA PRO A 11.562 1.00 0.00 98 121.251 -7.650 1HBPRO A ATOM 1444

ATOM 1	1445	2HB	PRO A	98	121.472	-8.530	13.079 1.00 0.00
ATOM 1	1446	1HG	PRO A	98	123.404	-6.786	11.600 1.00 0.00
ATOM :	1447	2HG	PRO A	98	123.070	-6.861	13.341 1.00 0.00
ATOM :	1448	1HD	PRO A	98	125.213	-8.076	12.188 1.00 0.00
ATOM	1449	2HD	PRO A	98	124.416	-8.700	13.646 1.00 0.00
ATOM	1450	N	SER A	99	123.200	-8.306	9.385 1.00 0.00
ATOM	1451	CA	SER A	99	123.219	-7.974	7.965 1.00 0.00
ATOM	1452	С	SER A	99	121.874	-7.407	7.521 1.00 0.00
ATOM	1453	0	SER A	99	121.020	-7.091	8.348 1.00 0.00
ATOM	1454	CB	SER A	99	123.566	-9.211	7.134 1.00 0.00
ATOM	1455	OG	SER A	99	124.331	-8.862	5.994 1.00 0.00
ATOM	1456	H	SER A	99	123.840	-7.871	9.986 1.00 0.00
MOTA	1457	HA	SER A	99	123.981	-7.223	7.811 1.00 0.00
ATOM	1458	1HB	SER A	99	124.136	-9.899	7.738 1.00 0.00
ATOM	1459	2HB	SER A	99	122.654	-9.689	6.808 1.00 0.00
ATOM	1460	HG	SER A	. 99	9 124.982	-9.547	5.823 1.00 0.00
ATOM	1461	N	GLY A	100	121.693	-7.282	6.210 1.00 0.00
ATOM	1462	CA	GLY A	10	0 120.450	-6.753	5.680 1.00 0.00
ATOM	I 1463	С	GLY A	10	0 119.356	5 <i>-</i> 7.803	5.611 1.00 0.00
ATOM	1 1464	0	GLY A	10	0 119.639	-8.982	5.399 1.00 0.00
ATON	I 1465	Н	GLY A	A 10	0 122.41	1 -7.550	5.597 1.00 0.00
ATO	M 1466	1HA	GLY	A 10	0 120.11	8 -5.944	6.312 1.00 0.00
ATO	M 1467	7 2HA	GLY	A 10	0 120.62	8 -6.37	0 4.686 1.00 0.00
ATO	M 1468	3 N	PRO .	A 10	118.08	5 -7.40	4 5.789 1.00 0.00
ATO	M 1469	O CA	PRO	A 10)1 116.95	2 -8.33	3 5.743 1.00 0.00
ATO	M 1470	0 C	PRO	A 10	116.66	0 -8.82	1 4.328 1.00 0.00
ATO	M 147	1 0	PRO	A 10)1 116.42	7 -8.02	3 3.421 1.00 0.00
AT0	M 147	2 CB	PRO	A 1	01 115.78	86 -7.49	6.269 1.00 0.00
ATO	M 147	3 CG	PRO	A 1	01 116.15	54 -6.08	5.942 1.00 0.00

ATOM 1474	CD I	PRO A 101	117.653	-6.016	6.049 1.00 0.00
ATOM 1475	HA I	PRO A 101	117.110	-9.182	6.391 1.00 0.00
ATOM 1476	1HB I	PRO A 101	114.873	-7.791	5.773 1.00 0.00
ATOM 1477	2HB]	PRO A 101	115.686	-7.638	7.335 1.00 0.00
ATOM 1478	1HG	PRO A 101	115.838	-5.850	4.937 1.00 0.00
ATOM 1479	2HG	PRO A 101	115.696	-5.414	6.650 1.00 0.00
ATOM 1480	1HD	PRO A 101	118.052	-5.343	5.304 1.00 0.00
ATOM 1481	2HD	PRO A 101	117.947	-5.701	7.039 1.00 0.00
ATOM 1482	N	SER A 102	116.674	-10.138	4.148 1.00 0.00
ATOM 1483	CA	SER A 102	116.412	-10.733	2.842 1.00 0.00
ATOM 1484	С	SER A 102	116.109	-12.222	2.974 1.00 0.00
ATOM 1485	0	SER A 102	114.991	-12.664	2.712 1.00 0.00
ATOM 1486	CB	SER A 102	117.608	-10.524	1.913 1.00 0.00
ATOM 1487	OG	SER A 102	2 118.116	-9.206	2.023 1.00 0.00
ATOM 1488	Н	SER A 102	2 116.867	-10.723	4.910 1.00 0.00
ATOM 1489	НА	SER A 102	2 115.549	-10.239	2.421 1.00 0.00
ATOM 1490	1HB	SER A 102	2 118.391	-11.220	2.174 1.00 0.00
ATOM 1491	2HB	SER A 10	2 117.301	-10.695	0.891 1.00 0.00
ATOM 1492	HG	SER A 10	2 117.394	-8.577	1.950 1.00 0.00
ATOM 1493	3 N	SER A 10	3 117.113	3 -12.991	3.383 1.00 0.00
ATOM 1494	4 CA	SER A 10	3 116.954	4 -14.431	3.549 1.00 0.00
ATOM 1495	5 C	SER A 10	3 116.25	7 -14.753	4.867 1.00 0.00
ATOM 1496	6 0	SER A 10	3 115.46	1 -15.689	4.948 1.00 0.00
ATOM 149'	7 CB	SER A 10	3 118.31	6 -15.125	3.496 1.00 0.00
ATOM 149	8 OG	SER A 10	3 119.34	7 -14.261	3.943 1.00 0.00
ATOM 149	9 H	SER A 10	3 117.98	2 -12.580	3.576 1.00 0.00
ATOM 150	O HA	SER A 10	03 116.34	4 -14.793	2.735 1.00 0.00
ATOM 150	1 1HB	SER A 10	03 118.29	7 –15.999	4.129 1.00 0.00
ATOM 150	2 2HB	SER A 1	03 118.52	28 –15.422	2.480 1.00 0.00

ATOM	1503	HG	SER A 103 119.084 -13.850	4.770 1.00 0.00
ATOM	1504	N	GLY A 104 116.563 -13.971	5.898 1.00 0.00
ATOM	1505	CA	GLY A 104 115.957 -14.190	7.198 1.00 0.00
ATOM	1506	С	GLY A 104 116.797 -13.632	8.330 1.00 0.00
`		0	GLY A 104 116.544 -12.483	8.749 1.00 0.00
		OXT	GLY A 104 117.710 -14.346	8.800 1.00 0.00
	1509	Н	GLY A 104 117.204 -13.241	5.775 1.00 0.00
	1510	1HA	GLY A 104 114.988 -13.713	7.216 1.00 0.00
			GLY A 104 115.828 -15.251	7.349 1.00 0.00
		21111	GLY A 104	
TEK	1512		GLI A 104	•
ENDN	I DL			

[0101]

立体構造座標表4

ATOM 1	N	GLY A	1 121.720	20.634 -14.920 1.00 0.00
ATOM 2	CA	GLY A	1 122.817	20.620 -15.926 1.00 0.00
ATOM 3	С	GLY A	1 124.008	19.798 -15.473 1.00 0.00
ATOM 4	0	GLY A	1 124.328	18.773 -16.074 1.00 0.00
ATOM 5	1H	GLY A	1 121.802	19.811 -14.289 1.00 0.00
ATOM 6	2H	GLY A	1 120.797	20.600 -15.398 1.00 0.00
ATOM 7	ЗН	GLY A	1 121.770	21.502 -14.350 1.00 0.00
ATOM 8	1HA	GLY A	1 122.439	20.205 -16.849 1.00 0.00
ATOM 9	2HA	GLY A	1 123.140	21.634 -16.106 1.00 0.00
ATOM 10	N	SER A	2 124.667	20.251 -14.411 1.00 0.00
ATOM 11	CA	SER A	2 125.830	19.552 -13.878 1.00 0.00
ATOM 12	С	SER A	2 125.464	18.765 -12.623 1.00 0.00
ATOM 13	0	SER A	2 126.259	18.661 -11.690 1.00 0.00
ATOM 14	СВ	SER A	2 126.948	20.547 -13.561 1.00 0.00
ATOM 15	OG	SER A	2 126.520	21.513 -12.617 1.00 0.00

ATOM 16	Н	SER A	2 124.363 21.075 -13.976 1.00 0.00
ATOM 16			2 126.177 18.862 -14.633 1.00 0.00
ATOM 17	HA	SER A	
ATOM 18	1HB	SER A	
ATOM 19	2HB	SER A	2 127.243 21.054 -14.469 1.00 0.00
ATOM 20	HG	SER A	2 126.598 22.391 -12.998 1.00 0.00
ATOM 21	N	SER A	3 124.255 18.213 -12.610 1.00 0.00
ATOM 22	CA	SER A	3 123.782 17.436 -11.469 1.00 0.00
ATOM 23	С	SER A	3 123.253 16.078 -11.920 1.00 0.00
ATOM 24	0	SER A	3 123.214 15.780 -13.113 1.00 0.00
ATOM 25	CB	SER A	3 122.690 18.201 -10.721 1.00 0.00
ATOM 26	OG	SER A	3 122.954 19.592 -10.713 1.00 0.00
ATOM 27	Н	SER A	3 123.666 18.332 -13.384 1.00 0.00
ATOM 28	HA	SER A	3 124.619 17.280 -10.805 1.00 0.00
ATOM 29	1HB	SER A	3 121.739 18.031 -11.206 1.00 0.00
ATOM 30	2HB	SER A	3 122.641 17.848 -9.701 1.00 0.00
ATOM 31	HG	SER A	3 123.781 19.758 -10.252 1.00 0.00
ATOM 32	N	GLY A	4 122.847 15.258 -10.956 1.00 0.00
ATOM 33	CA	GLY A	4 122.325 13.942 -11.272 1.00 0.00
ATOM 34	С	GLY A	4 121.131 13.570 -10.416 1.00 0.00
ATOM 35	0	GLY A	4 120.014 13.442 -10.917 1.00 0.00
ATOM 36	Н	GLY A	4 122.901 15.549 -10.021 1.00 0.00
· ATOM 37	1H	A GLY A	4 122.029 13.925 -12.310 1.00 0.00
ATOM 38	2H	A GLY A	4 123.105 13.211 -11.120 1.00 0.00
ATOM 39	N	SER A	5 121.366 13.394 -9.120 1.00 0.00
ATOM 40	CA	SER A	5 120.300 13.034 -8.191 1.00 0.00
ATOM 41	С	SER A	A 5 120.725 13.292 -6.750 1.00 0.00
ATOM 42	0	SER .	A 5 121.804 13.829 -6.496 1.00 0.00
ATOM 43	CI	SER	A 5 119.918 11.564 -8.367 1.00 0.00
ATOM 44	_	G SER	A 5 118.602 11.319 -7.902 1.00 0.00

ATOM 45	Н	SER A	5 122.278	13.510 -	-8.780 1.00 0.00
ATOM 46	HA	SER A	5 119.443	13.650 -	-8.417 1.00 0.00
ATOM 47	1HB	SER A	5 119.969	11.303	-9.414 1.00 0.00
ATOM 48	2HB	SER A	5 120.605	10.946	-7.809 1.00 0.00
ATOM 49	HG	SER A	5 117.985	11.880	-8.377 1.00 0.00
ATOM 50	N	SER A	6 119.871	12.904	-5.808 1.00 0.00
ATOM 51	CA	SER A	6 120.158	13.094	-4.391 1.00 0.00
ATOM 52	С	SER A	6 120.904	11.891	-3.822 1.00 0.00
ATOM 53	0	SER A	6 120.766	10.772	-4.314 1.00 0.00
ATOM 54	СВ	SER A	6 118.860	13.318	-3.612 1.00 0.00
ATOM 55	OG	SER A	6 118.541	14.697	-3.538 1.00 0.00
ATOM 56	Н	SER A	6 119.027	12.481	-6.073 1.00 0.00
ATOM 57	HA	SER A	6 120.782	13.969	-4.293 1.00 0.00
ATOM 58	1HB	SER A	6 118.052	12.801	-4.106 1.00 0.00
ATOM 59	2HB	SER A	6 118.975	12.933	-2.609 1.00 0.00
ATOM 60	HG	SER A	6 118.107	14.880	-2.702 1.00 0.00
ATOM 61	N	GLY A	7 121.697	12.132	-2.782 1.00 0.00
ATOM 62	CA	GLY A	7 122.455	11.059	-2.163 1.00 0.00
ATOM 63	С	GLY A	7 123.939	11.360	-2.100 1.00 0.00
ATOM 64	0	GLY A	7 124.349	12.392	-1.568 1.00 0.00
ATOM 65	H	GLY A	7 121.76	8 13.044	-2.433 1.00 0.00
ATOM 66	1H/	A GLY A	7 122.08	6 10.908	-1.159 1.00 0.00
ATOM 67	2H	A GLY A	7 122.30	6 10.153	-2.730 1.00 0.00
ATOM 68	N	LEU A	8 124.74	7 10.455	-2.645 1.00 0.00
ATOM 69	CA	LEU A	8 126.19	5 10.628	-2.648 1.00 0.00
ATOM 70	С	LEU A	8 126.73	5 10.727	-1.225 1.00 0.00
ATOM 71	0	LEU A	8 126.95	66 11.822	-0.708 1.00 0.00
ATOM 72	CB	LEU A	A 8 126.57	78 11.881	-3.439 1.00 0.00
ATOM 73	CG	LEU	A 8 126.39	91 11.77	-4.954 1.00 0.00

ATOM 74	CD1 I	LEU A	8 125.132	12.503	-5.392 1.00 0.00
ATOM 75	CD2	LEU A	8 127.609	12.320	-5.684 1.00 0.00
ATOM 76	H I	LEU A	8 124.360	9.653	-3.053 1.00 0.00
ATOM 77	HA	LEU A	8 126.631	9.764	-3.127 1.00 0.00
ATOM 78	1HB	LEU A	8 125.979	12.704	-3.080 1.00 0.00
ATOM 79	2HB	LEU A	8 127.617	12.101	-3.241 1.00 0.00
ATOM 80	HG	LEU A	8 126.281	10.731	-5.222 1.00 0.00
ATOM 81	1HD1	LEU A	8 125.389	13.502	-5.716 1.00 0.00
ATOM 82	2HD1	LEU A	8 124.442	12.560	-4.564 1.00 0.00
ATOM 83	3HD1	LEU A	8 124.669	11.968	-6.208 1.00 0.00
ATOM 84	1HD2	LEU A	8 127.471	12.206	-6.749 1.00 0.00
ATOM 85	2HD2	LEU A	8 128.489	11.776	-5.375 1.00 0.00
ATOM 86	3HD2	LEU A	8 127.731	13.366	-5.447 1.00 0.00
ATOM 87	N	ALA A	9 126.946	9.575	-0.597 1.00 0.00
ATOM 88	CA	ALA A	9 127.461	9.530	0.766 1.00 0.00
ATOM 89	С	ALA A	9 128.987	9.538	0.777 1.00 0.00
ATOM 90	0	ALA A	9 129.620	8.618	1.295 1.00 0.00
ATOM 91	CB	ALA A	9 126.930	8.302	1.490 1.00 0.00
ATOM 92	H	ALA A	9 126.752	8.734	-1.062 1.00 0.00
ATOM 93	HA	ALA A	9 127.103	10.408	1.285 1.00 0.00
ATOM 94	1HB	ALA A	9 126.984	7.446	0.834 1.00 0.00
ATOM 95	2HB	ALA A	9 125.902	8.470	1.778 1.00 0.00
ATOM 96	3HB	ALA A	9 127.525	8.119	2.372 1.00 0.00
ATOM 97	N	MET A	10 129.57	1 10.584	0.201 1.00 0.00
ATOM 98	CA	MET A	10 131.023	3 10.712	0.145 1.00 0.00
ATOM 99	С	MET A	10 131.429	9 12.104	-0.337 1.00 0.00
ATOM 100	0	MET A	10 132.02	5 12.252	-1.405 1.00 0.00
ATOM 101	СВ	MET A	10 131.61	4 9.645	-0.779 1.00 0.00
ATOM 102	CG	MET A	10 130.84	8 9.478	-2.083 1.00 0.00

ATOM 103	SD	MET A	10 131.914	9.566	-3.535 1.00 0.00
ATOM 104	CE	MET A	10 131.189	10.954	-4.404 1.00 0.00
ATOM 105	H	MET A	10 129.013	11.286	-0.194 1.00 0.00
ATOM 106	HA	MET A	10 131.407	10.564	1.143 1.00 0.00
ATOM 107	1HB	MET A	10 132.633	9.913	-1.014 1.00 0.00
ATOM 108	2HB	MET A	10 131.611	8.697	-0.261 1.00 0.00
ATOM 109	1HG	MET A	10 130.356	8.517	-2.075 1.00 0.00
ATOM 110	2HG	MET A	10 130.106	10.259	-2.151 1.00 0.00
ATOM 111	1HE	MET A	10 130.247	10.653	-4.838 1.00 0.00
ATOM 112	2HE	MET A	10 131.859	11.279	-5.186 1.00 0.00
ATOM 113	3HE	MET A	10 131.023	11.765	-3.711 1.00 0.00
ATOM 114	N	PRO A	11 131.111	13.149	0.447 1.00 0.00
ATOM 115	CA	PRO A	11 131.448	14.531	0.093 1.00 0.00
ATOM 116	С	PRO A	11 132.950	14.732	-0.102 1.00 0.00
ATOM 117	0	PRO A	11 133.376	15.329	-1.090 1.00 0.00
ATOM 118	CB	PRO A	11 130.946	15.355	1.283 1.00 0.00
ATOM 119	CG	PRO A	11 129.966	14.479	1.987 1.00 0.00
ATOM 120	CD	PRO A	11 130.402	13.063	1.735 1.00 0.00
ATOM 121	HA	PRO A	11 130.931	14.840	-0.803 1.00 0.00
ATOM 122	1HB	PRO A	11 131.778	3 15.610	1.923 1.00 0.00
ATOM 123	2HB	PRO A	11 130.476	6 16.258	0.923 1.00 0.00
ATOM 124	1HG	PRO A	11 129.982	2 14.690	3.045 1.00 0.00
ATOM 125	2HG	PRO A	11 128.975	5 14.641	1.587 1.00 0.00
ATOM 126	1HD	PRO A	11 131.06	5 12.727	2.519 1.00 0.00
ATOM 127	2HI	PRO A	11 129.54	4 12.412	1.659 1.00 0.00
ATOM 128	N	PRO A	A 12 133.77	9 14.235	0.835 1.00 0.00
ATOM 129	CA	PRO A	A 12 135.23	8 14.369	0.742 1.00 0.00
ATOM 130	С	PRO A	A 12 135.78	3 13.801	-0.562 1.00 0.00
ATOM 131	0	PRO .	A 12 136.87	1 14.169	-1.006 1.00 0.00

ATOM 132	СВ	PRO A	12 135.755	13.558	1.934 1.00 0.00
ATOM 133	CG	PRO A	12 134.615	13.509	2.890 1.00 0.00
ATOM 134	CD	PRO A	12 133.371	13.501	2.049 1.00 0.00
ATOM 135	HA	PRO A	12 135.546	15.399	0.841 1.00 0.00
ATOM 136	1HB	PRO A	12 136.037	12.568	1.604 1.00 0.00
ATOM 137	2HB	PRO A	12 136.611	14.055	2.366 1.00 0.00
ATOM 138	1HG	PRO A	12 134.672	12.609	3.484 1.00 0.00
ATOM 139	2HG	PRO A	12 134.632	14.382	3.526 1.00 0.00
ATOM 140	1HD	PRO A	12 133.084	12.488	1.809 1.00 0.00
ATOM 141	2HD	PRO A	12 132.570	14.012	2.558 1.00 0.00
ATOM 142	N	GLY A	13 135.020	12.900	-1.175 1.00 0.00
ATOM 143	CA	GLY A	13 135.443	12.293	-2.423 1.00 0.00
ATOM 144	С	GLY A	13 135.739	10.814	-2.278 1.00 0.00
ATOM 145	0	GLY A	13 135.196	10.149	-1.395 1.00 0.00
ATOM 146	H	GLY A	13 134.162	12.644	-0.774 1.00 0.00
ATOM 147	1HA	GLY A	13 134.662	12.423	-3.156 1.00 0.00
ATOM 148	2HA	GLY A	13 136.335	12.795	-2.771 1.00 0.00
ATOM 149	N	ASN A	14 136.601	10.296	-3.147 1.00 0.00
ATOM 150	CA	ASN A	14 136.968	8.885	-3.112 1.00 0.00
ATOM 151	С	ASN A	14 135.742	7.999	-3.313 1.00 0.00
ATOM 152	0	ASN A	14 134.635	8.494	-3.530 1.00 0.00
ATOM 153	CB	ASN A	14 137.644	8.545	-1.783 1.00 0.00
ATOM 154	CG	ASN A	14 138.954	9.284	-1.595 1.00 0.00
ATOM 155	OD1	ASN A	14 139.30	5 10.161	-2.385 1.00 0.00
ATOM 156	ND2	ASN A	14 139.68	7 8.933	-0.545 1.00 0.00
ATOM 157	Н	ASN A	14 137.00	0 10.876	-3.828 1.00 0.00
ATOM 158	HA	ASN A	A 14 137.66	4 8.704	-3.917 1.00 0.00
ATOM 159	1H	B ASN	A 14 136.98	3 8.810	-0.971 1.00 0.00
ATOM 160	2H	B ASN .	A 14 137.84	2 7.484	-1.747 1.00 0.00

ATOM 161	1 <u>U</u> D2	ASN A	14 139.345	8.227	0.043 1.00 0.00
			14 140.538		-0.399 1.00 0.00
		ASN A		•	
ATOM 163	N	SER A	15 135.948	0.000	-3.242 1.00 0.00
ATOM 164	CA	SER A	15 134.858	• • • • • • • • • • • • • • • • • • • •	-3.416 1.00 0.00
ATOM 165	С	SER A	15 133.890	5.791	-2.239 1.00 0.00
ATOM 166	0	SER A	15 132.711	6.101	-2.407 1.00 0.00
ATOM 167	CB	SER A	15 135.414	4.317	-3.566 1.00 0.00
ATOM 168	OG	SER A	15 136.208	3.959	-2.448 1.00 0.00
ATOM 169	Н	SER A	15 136.852	6.355	-3.068 1.00 0.00
ATOM 170	HA	SER A	15 134.326	5.999	-4.317 1.00 0.00
ATOM 171	1HB	SER A	15 134.595	3.618	-3.647 1.00 0.00
ATOM 172	2HB	SER A	15 136.023	4.263	-4.456 1.00 0.00
ATOM 173	HG	SER A	15 137.082	3.698	-2.747 1.00 0.00
ATOM 174	N	HIS A	16 134.398	5.491	-1.048 1.00 0.00
ATOM 175	CA	HIS A	16 133.578	5.509	0.159 1.00 0.00
ATOM 176	С	HIS A	16 134.260	6.307	1.267 1.00 0.00
ATOM 177	0	HIS A	16 133.836	7.413	1.599 1.00 0.00
ATOM 178	CB	HIS A	16 133.304	4.080	0.634 1.00 0.00
ATOM 179	CG	HIS A	16 131.900	3.624	0.378 1.00 0.00
ATOM 180	ND1	HIS A	16 131.007	3.335	1.388 1.00 0.00
ATOM 181	CD2	HIS A	16 131.237	3.409	-0.782 1.00 0.00
ATOM 182	CE1	HIS A	16 129.855	2.961	0.860 1.00 0.00
ATOM 183	NE2	HIS A	16 129.968	2.997	-0.455 1.00 0.00
ATOM 184	Н	HIS A	16 135.345	5.253	-0.978 1.00 0.00
ATOM 185	HA	HIS A	16 132.640	5.984	-0.086 1.00 0.00
ATOM 186	1HB	HIS A	16 133.970	3.403	0.122 1.00 0.00
ATOM 187			16 133.485	4.019	1.698 1.00 0.00
ATOM 188					2.350 1.00 0.00
ATOM 189	HD2				6 -1.780 1.00 0.00
TIOM TOO	111/2	1			

ATOM 190	HE1 HI	S A	16 128.971	2.675	1.411 1.00 0.00
ATOM 191	HE2 HI	S A	16 129.289	2.685 -	-1.088 1.00 0.00
ATOM 192	N GI	Y A	17 135.318	5.736	1.834 1.00 0.00
ATOM 193	CA GI	LY A	17 136.041	6.408	2.898 1.00 0.00
ATOM 194	C GI	LY A	17 137.368	5.742	3.205 1.00 0.00
ATOM 195	0 GI	LY A	17 137.614	5.325	4.336 1.00 0.00
ATOM 196	H G	LY A	17 135.609	4.853	1.527 1.00 0.00
ATOM 197	1HA G	LY A	17 136.223	7.431	2.604 1.00 0.00
ATOM 198	2HA G	LY A	17 135.433	6.403	3.791 1.00 0.00
ATOM 199	N L	EU A	18 138.224	5.641	2.194 1.00 0.00
ATOM 200	CA L	EU A	18 139.533	5.020	2.360 1.00 0.00
ATOM 201	C L	EU A	18 140.585	6.058	2.735 1.00 0.00
ATOM 202	0 I	ŒU A	18 140.997	6.868	1.904 1.00 0.00
ATOM 203	CB I	EU A	18 139.946	4.299	1.074 1.00 0.00
ATOM 204	CG I	LEU A	18 138.884	3.370	0.484 1.00 0.00
ATOM 205	CD1 I	LEU A	18 139.224	3.020	-0.957 1.00 0.00
ATOM 206	CD2	LEU A	18 138.754	2.110	1.325 1.00 0.00
ATOM 207	Н]	LEU A	18 137.969	5.991	1.314 1.00 0.00
ATOM 208	HA]	LEU A	18 139.458	4.296	3.158 1.00 0.00
ATOM 209	1HB	LEU A	18 140.195	5.046	0.333 1.00 0.00
ATOM 210	2HB	LEU A	18 140.828	3.714	1.282 1.00 0.00
ATOM 211	HG	LEU A	18 137.929	3.877	0.487 1.00 0.00
ATOM 212	1HD1	LEU A	18 140.293	3.082	-1.099 1.00 0.00
ATOM 213	2HD1	LEU A	18 138.731	3.712	-1.622 1.00 0.00
ATOM 214	3HD1	LEU A	18 138.890	2.015	-1.171 1.00 0.00
ATOM 215	1HD2	LEU A	18 139.718	1.634	1.411 1.00 0.00
ATOM 216	2HD2	LEU A	18 138.058	1.432	0.852 1.00 0.00
ATOM 217	3HD2	LEU A	A 18 138.390	2.369	2.308 1.00 0.00
ATOM 218	N	GLU A	A 19 141.017	6.028	3.992 1.00 0.00

ATOM 219	CA	GLU A	19 142.022	6.965	4.478 1.00 0.00
ATOM 220	C	GLU A	19 143.071	6.248	5.321 1.00 0.00
ATOM 221	0	GLU A	19 143.018	5.031	5.491 1.00 0.00
ATOM 222	CB	GLU A	19 141.360	8.074	5.299 1.00 0.00
ATOM 223	CG	GLU A	19 140.503	7.556	6.441 1.00 0.00
ATOM 224	CD	GLU A	19 139.214	8.339	6.604 1.00 0.00
ATOM 225	OE1	GLU A	19 138.659	8.787	5.579 1.00 0.00
ATOM 226	0E2	GLU A	19 138.761	8.502	7.756 1.00 0.00
ATOM 227	H	GLU A	19 140.651	5.358	4.607 1.00 0.00
ATOM 228	HA	GLU A	19 142.506	7.405	3.619 1.00 0.00
ATOM 229	1HB	GLU A	19 142.132	8.706	5.714 1.00 0.00
ATOM 230	2HB	GLU A	19 140.735	8.664	4.646 1.00 0.00
ATOM 231	1HG	GLU A	19 140.256	6.523	6.249 1.00 0.00
ATOM 232	2HG	GLU A	19 141.068	7.626	7.359 1.00 0.00
ATOM 233	N	VAL A	20 144.023	7.011	5.846 1.00 0.00
ATOM 234	CA	VAL A	20 145.085	6.447	6.672 1.00 0.00
ATOM 235	C	VAL A	20 144.518	5.816	7.939 1.00 0.00
ATOM 236	0	VAL A	20 143.685	6.411	8.621 1.00 0.00
ATOM 237	CB	VAL A	20 146.122	7.518	7.065 1.00 0.00
ATOM 238	CG	1 VAL A	20 147.296	6.884	7.795 1.00 0.00
ATOM 239	CG	2 VAL A	20 146.598	8.279	5.835 1.00 0.00
ATOM 240	Н	VAL A	20 144.013	7.976	5.675 1.00 0.00
ATOM 241	HA	VAL A	20 145.587	5.685	6.095 1.00 0.00
ATOM 242	HB	VAL A	A 20 145.648	8.220	7.734 1.00 0.00
ATOM 243	1H	IG1 VAL A	A 20 148.120	7.582	7.825 1.00 0.00
ATOM 244	2F	IG1 VAL A	A 20 147.602	5.988	7.276 1.00 0.00
ATOM 245	3F	IG1 VAL	A 20 147.000	6.632	8.802 1.00 0.00
ATOM 246	5 1F	IG2 VAL	A 20 146.673	9.330	6.069 1.00 0.00
ATOM 247	7 2H	HG2 VAL	A 20 145.893	8.139	5.029 1.00 0.00

ATOM 248	3HG2	VAL A	20 147.567	7.907	5.535 1.00 0.00
ATOM 249	N	GLY A	21 144.974	4.607	8.247 1.00 0.00
ATOM 250	CA	GLY A	21 144.501	3.914	9.431 1.00 0.00
ATOM 251	С	GLY A	21 143.495	2.828	9.106 1.00 0.00
ATOM 252	0	GLY A	21 143.520	1.751	9.699 1.00 0.00
ATOM 253	H	GLY A	21 145.639	4.181	7.665 1.00 0.00
ATOM 254	1HA	GLY A	21 145.347	3.468	9.935 1.00 0.00
ATOM 255	2HA	GLY A	21 144.040	4.631	10.093 1.00 0.00
ATOM 256	N	SER A	22 142.605	3.114	8.159 1.00 0.00
ATOM 257	CA	SER A	22 141.584	2.153	7.757 1.00 0.00
ATOM 258	С	SER A	22 142.168	1.099	6.821 1.00 0.00
ATOM 259	0	SER A	22 143.084	1.379	6.049 1.00 0.00
ATOM 260	CB	SER A	22 140.421	2.872	7.070 1.00 0.00
ATOM 261	OG	SER A	22 139.627	3.571	8.012 1.00 0.00
ATOM 262	Н	SER A	22 142.636	3.990	7.723 1.00 0.00
ATOM 263	HA	SER A	22 141.218	1.664	8.647 1.00 0.00
ATOM 264	1HB	SER A	22 140.810	3.578	6.352 1.00 0.00
ATOM 265	2HB	SER A	22 139.803	2.146	6.563 1.00 0.00
ATOM 266	HG	SER A	22 139.120	4.251	7.562 1.00 0.00
ATOM 267	N	LEU A	23 141.632	-0.115	6.897 1.00 0.00
ATOM 268	CA	LEU A	23 142.098	-1.212	6.057 1.00 0.00
ATOM 269	С	LEU A	23 141.431	-1.171	4.687 1.00 0.00
ATOM 270	0	LEU A	23 140.263	-0.802	4.564 1.00 0.00
ATOM 271	CB	LEU A	23 141.820	-2.555	6.734 1.00 0.00
ATOM 272	CG	LEU A	23 142.685	-2.855	7.958 1.00 0.00
ATOM 273	CD1	LEU A	23 141.930	-3.730	8.945 1.00 0.00
ATOM 274	CD2	LEU A	23 143.986	-3.523	7.539 1.00 0.00
ATOM 275	Н	LEU A	23 140.904	-0.277	7.533 1.00 0.00
ATOM 276	HA	LEU A	23 143.165	-1.098	5.928 1.00 0.00

ATOM 277	1HB 3	LEU A	23 140.783	-2.572	7.039 1.00 0.00
ATOM 278	2HB	LEU A	23 141.978	-3.339	6.009 1.00 0.00
ATOM 279	HG	LEU A	23 142.929	-1.927	8.454 1.00 0.00
ATOM 280	1HD1	LEU A	23 142.506	-3.832	9.853 1.00 0.00
ATOM 281	2HD1	LEU A	23 141.767	-4.705	8.511 1.00 0.00
ATOM 282	3HD1	LEU A	23 140.977	-3.276	9.173 1.00 0.00
ATOM 283	1HD2	LEU A	23 144.455	-2.941	6.758 1.00 0.00
ATOM 284	2HD2	LEU A	23 143.779	-4.517	7.171 1.00 0.00
ATOM 285	3HD2	LEU A	23 144.650	-3.584	8.389 1.00 0.00
ATOM 286	N	ALA A	24 142.180	-1.554	3.658 1.00 0.00
ATOM 287	CA	ALA A	24 141.661	-1.562	2.296 1.00 0.00
ATOM 288	С	ALA A	24 142.228	-2.732	1.500 1.00 0.00
ATOM 289	0	ALA A	24 143.420	-3.033	1.583 1.00 0.00
ATOM 290	CB	ALA A	24 141.979	-0.245	1.603 1.00 0.00
ATOM 291	H	ALA A	24 143.104	-1.837	3.819 1.00 0.00
ATOM 292	Η̈́A	ALA A	24 140.587	-1.663	2.349 1.00 0.00
ATOM 293	1HB	ALA A	24 142.874	-0.358	1.009 1.00 0.00
ATOM 294	2HB	ALA A	24 142.134	0.524	2.345 1.00 0.00
ATOM 295	3HB	ALA A	24 141.155	0.033	0.962 1.00 0.00
ATOM 296	N	GLU A	25 141.369	-3.388	0.727 1.00 0.00
ATOM 297	CA	GLU A	25 141.786	-4.526	-0.084 1.00 0.00
ATOM 298	С	GLU A	25 141.885	-4.138	-1.555 1.00 0.00
ATOM 299	0	GLU A	25 140.962	-3.548	-2.117 1.00 0.00
ATOM 300	CB	GLU A	25 140.802	2 -5.686	0.084 1.00 0.00
ATOM 301	CG	GLU A	25 141.261	-6.974	-0.579 1.00 0.00
ATOM 302	CD	GLU A	25 140.550	-7.240	-1.891 1.00 0.00
ATOM 303	OE1	GLU A	25 140.21	1 -8.414	-2.155 1.00 0.00
ATOM 304	OE2	GLU A	A 25 140.33	0 -6.277	-2.654 1.00 0.00
ATOM 305	Н	GLU A	A 25 140.43	2 -3.101	0.703 1.00 0.00

ATOM 306	HA	GLU A	25 142.759	-4.839	0.261 1.00 0.00
ATOM 307	1HB	GLU A	25 140.665	-5.878	1.138 1.00 0.00
ATOM 308	2HB	GLU A	25 139.853	-5.403	-0.348 1.00 0.00
ATOM 309	1HG	GLU A	25 142.322	-6.906	-0.771 1.00 0.00
ATOM 310	2HG	GLU A	25 141.069	-7.798	0.092 1.00 0.00
ATOM 311	N	VAL A	26 143.013	-4.472	-2.175 1.00 0.00
ATOM 312	CA	VAL A	26 143.234	-4.159	-3.582 1.00 0.00
ATOM 313	С	VAL A	26 142.875	-5.344	-4.470 1.00 0.00
ATOM 314	0	VAL A	26 143.102	-6.498	-4.106 1.00 0.00
ATOM 315	СВ	VAL A	26 144.698	-3.759	-3.844 1.00 0.00
ATOM 316	CG1	VAL A	26 144.864	-3.239	-5.263 1.00 0.00
ATOM 317	CG2	VAL A	26 145.159	-2.722	-2.830 1.00 0.00
ATOM 318	Н	VAL A	26 143.712	-4.941	-1.674 1.00 0.00
ATOM 319	HA	VAL A	26 142.602	-3.322	-3.840 1.00 0.00
ATOM 320	HB	VAL A	26 145.315	-4.638	-3.733 1.00 0.00
ATOM 321	1HG	1 VAL A	26 143.919	-2.852	-5.618 1.00 0.00
ATOM 322	2HG	1 VAL A	26 145.187	-4.044	-5.907 1.00 0.00
ATOM 323	3HG	1 VAL A	26 145.602	-2.450	-5.274 1.00 0.00
ATOM 324	1HG	2 VAL A	26 145.819	-2.017	-3.312 1.00 0.00
ATOM 325	2HG	2 VAL A	26 145.683	-3.214	-2.026 1.00 0.00
ATOM 326	3HG	S2 VAL A	26 144.300	-2.200	-2.434 1.00 0.00
ATOM 327	N	LYS A	27 142.313	3 -5.052	-5.639 1.00 0.00
ATOM 328	CA	LYS A	27 141.922	2 -6.094	-6.581 1.00 0.00
ATOM 329	С	LYS A	27 143.099	-6.503	-7.462 1.00 0.00
ATOM 330	0	LYS A	27 143.028	3 -6.423	-8.689 1.00 0.00
ATOM 331	СВ	LYS A	A 27 140.75	3 -5.616	-7.450 1.00 0.00
ATOM 332	CG	LYS A	A 27 139.94	1 -6.748	-8.051 1.00 0.00
ATOM 333	CD	LYS A	A 27 138.45	5 -6.426	-8.056 1.00 0.00
ATOM 334	CE	LYS A	A 27 138.09	3 -5.490	-9.199 1.00 0.00

ATOM 335	NZ	LYS A	27 136.757	-5.806	-9.773 1.00 0.00
ATOM 336	H	LYS A	27 142.157	-4.114	-5.874 1.00 0.00
ATOM 337	HA	LYS A	27 141.603	-6.954	-6.009 1.00 0.00
ATOM 338	1HB	LYS A	27 140.100	-5.008	-6.846 1.00 0.00
ATOM 339	2HB	LYS A	27 141.148	-5.014	-8.257 1.00 0.00
ATOM 340	1HG	LYS A	27 140.267	-6.913	-9.068 1.00 0.00
ATOM 341	2HG	LYS A	27 140.104	-7.644	-7.470 1.00 0.00
ATOM 342	1HD	LYS A	27 137.898	-7.344	-8.166 1.00 0.00
ATOM 343	2HD	LYS A	27 138.196	-5.954	-7.120 1.00 0.00
ATOM 344	1HE	LYS A	27 138.083	-4.476	-8.826 1.00 0.00
ATOM 345	2HE	LYS A	27 138.840	-5.581	-9.973 1.00 0.00
ATOM 346	1HZ	LYS A	27 136.863	-6.410	-10.613 1.00 0.00
ATOM 347	2HZ	LYS A	27 136.269	-4.931	-10.049 1.00 0.00
ATOM 348	3HZ	LYS A	27 136.175	-6.307	-9.072 1.00 0.00
ATOM 349	N	GLU A	28 144.182	-6.941	-6.829 1.00 0.00
ATOM 350	CA	GLU A	28 145.374	-7.363	-7.554 1.00 0.00
ATOM 351	С	GLU A	28 145.422	-8.882	-7.682 1.00 0.00
ATOM 352	0	GLU A	28 144.507	-9.581	-7.248 1.00 0.00
ATOM 353	CB	GLU A	28 146.634	-6.857	-6.845 1.00 0.00
ATOM 354	CG	GLU A	28 147.639	-6.209	-7.782 1.00 0.00
ATOM 355	CD	GLU A	28 148.605	-5.292	-7.057 1.00 0.00
ATOM 356	OE1	GLU A	28 148.525	-4.063	-7.264 1.00 0.00
ATOM 357	0E2	GLU A	28 149.440	-5.803	-6.282 1.00 0.00
ATOM 358	H	GLU A	28 144.179	-6.982	-5.849 1.00 0.00
ATOM 359	HA	GLU A	28 145.33	L -6.931	-8.542 1.00 0.00
ATOM 360	1HE	GLU A	28 146.346	6 -6.129	-6.102 1.00 0.00
ATOM 361	2HE	GLU A	28 147.116	6 –7.689	-6.354 1.00 0.00
ATOM 362	1H0	G GLU A	28 148.20	6 -6.984	-8.275 1.00 0.00
ATOM 363	2H0	G GLU A	28 147.10	3 -5.631	-8.521 1.00 0.00

ATOM 364	N	ASN A	29 146.495 -9.387 -8.282 1.00 0.00
ATOM 365	CA	ASN A	29 146.661 -10.823 -8.467 1.00 0.00
ATOM 366	C	ASN A	29 146.743 -11.539 -7.120 1.00 0.00
ATOM 367	0	ASN A	29 145.928 -12.410 -6.820 1.00 0.00
ATOM 368	СВ	ASN A	29 147.918 -11.112 -9.291 1.00 0.00
ATOM 369	CG	ASN A	29 147.608 -11.324 -10.760 1.00 0.00
ATOM 370	OD1	ASN A	29 147.598 -12.454 -11.248 1.00 0.00
ATOM 371	ND2	ASN A	29 147.356 -10.233 -11.475 1.00 0.00
ATOM 372	H	ASN A	29 147.192 -8.780 -8.608 1.00 0.00
ATOM 373	HA	ASN A	29 145.798 -11.190 -9.003 1.00 0.00
ATOM 374	1HB	ASN A	29 148.598 -10.277 -9.203 1.00 0.00
ATOM 375	2HB	ASN A	29 148.395 -12.002 -8.910 1.00 0.00
ATOM 376	1HD2	2 ASN A	29 147.382 -9.365 -11.020 1.00 0.00
ATOM 377	2HD2	2 ASN A	29 147.152 -10.341 -12.427 1.00 0.00
ATOM 378	N	PRO A	30 147.733 -11.175 -6.287 1.00 0.00
ATOM 379	CA	PRO A	30 147.919 -11.784 -4.967 1.00 0.00
ATOM 380	С	PRO A	30 146.921 -11.253 -3.938 1.00 0.00
ATOM 381	0	PRO A	30 147.010 -10.099 -3.519 1.00 0.00
ATOM 382	CB	PRO A	30 149.341 -11.369 -4.593 1.00 0.00
ATOM 383	CG	PRO A	30 149.544 -10.067 -5.286 1.00 0.00
ATOM 384	CD	PRO A	30 148.751 -10.141 -6.565 1.00 0.00
ATOM 385	HA	PRO A	30 147.855 -12.860 -5.014 1.00 0.00
ATOM 386	1HB	B PRO A	30 149.419 -11.265 -3.521 1.00 0.00
ATOM 387	2HE	B PRO A	30 150.040 -12.115 -4.942 1.00 0.00
ATOM 388	1H0	PRO A	30 149.181 -9.261 -4.667 1.00 0.00
ATOM 389	2H0	PRO A	30 150.593 -9.927 -5.506 1.00 0.00
ATOM 390	1HI	PRO A	30 148.285 -9.191 -6.775 1.00 0.00
ATOM 391	2HI	PRO A	A 30 149.386 -10.439 -7.385 1.00 0.00
ATOM 392	N	PRO A	A 31 145.956 -12.087 -3.514 1.00 0.00

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-2.529 1.00 0.00
                PRO A
                       31 144.946 -11.687
ATOM 393
           CA
                                            -1.138 1.00 0.00
           C
                        31 145.541 -11.490
ATOM 394
                PRO A
                                            -0.349 1.00 0.00
ATOM 395
           0
                PRO A
                       31 145.621 -12.431
                                             -2.529 1.00 0.00
ATOM 396
           CB
                PRO A
                        31 143.962 -12.857
                                             -2.981 1.00 0.00
           CG
                        31 144.764 -14.027
ATOM 397
                PRO A
                                             -3.957 1.00 0.00
                PRO A
                        31 145.771 -13.483
ATOM 398
           CD
                                             -2.831 1.00 0.00
                        31 144.436 -10.783
ATOM 399
           HA
                 PRO A
                        31 143.574 -13.006
                                             -1.531 1.00 0.00
ATOM 400
           1HB
                 PRO A
ATOM 401
                        31 143.149 -12.649
                                             -3.209 1.00 0.00
           2HB
                 PRO A
                        31 145.264 -14.479
                                             -2.137 1.00 0.00
                 PRO A
ATOM 402
            1HG
                                             -3.468 1.00 0.00
                 PRO A
                        31 144.123 -14.746
ATOM 403
            2HG
                                             -3.889 1.00 0.00
                        31 146.697 -14.035
            1HD
                 PRO A
ATOM 404
                                             -4.963 1.00 0.00
                        31 145.380 -13.519
            2HD
                 PRO A
ATOM 405
                                             -0.844 \ 1.00 \ 0.00
                        32 145.954 -10.262
                 PHE A
ATOM 406
            N
                                              0.452 1.00 0.00
                                    -9.942
                 PHE A
                        32 146.541
ATOM 407
            CA
                                               1.201 1.00 0.00
                                     -8.925
            C
                        32 145.685
ATOM 408
                 PHE A
                                               0.652 1.00 0.00
                 PHE A
                         32 144.726
                                     -8.383
ATOM 409
            0
                                     -9.398
                                               0.273 1.00 0.00
                 PHE A
                         32 147.959
 ATOM 410
            CB
                                     -8.250
                                              -0.693 1.00 0.00
                         32 148.045
            CG
                 PHE A
 ATOM 411
                                              -1.917 1.00 0.00
                         32 148.676
                                     -8.404
            CD1
                 PHE A
 ATOM 412
                                              -0.376 1.00 0.00
                         32 147.495
                                     -7.019
                 PHE A
 ATOM 413
            CD2
                                              -2.808 1.00 0.00
                                     -7.350
                 PHE A
                         32 148.757
 ATOM 414
            CE1
                                              -1.262 1.00 0.00
                                     -5.962
 ATOM 415
            CE2
                 PHE A
                         32 147.573
                                              -2.480 1.00 0.00
                                     -6.127
 ATOM 416
            CZ
                  PHE A
                         32 148.205
                                              -1.515 1.00 0.00
 ATOM 417
            H
                  PHE A
                         32 145.862
                                     -9.553
                         32 146.585 -10.853
                                               1.030 1.00 0.00
 ATOM 418
            HA
                  PHE A
                  PHE A
                         32 148.329 -9.056
                                               1.228 1.00 0.00
 ATOM 419
             1HB
                                              -0.093 1.00 0.00
 ATOM 420
             2HB
                  PHE A
                         32 148.597 -10.190
                                              -2.174 1.00 0.00
 ATOM 421
                  PHE A
                         32 149.108 -9.360
             HD1
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ATOM 422	HD2	PHE A	32 147.001	-6.889	0.575 1.00 0.00
ATOM 423	HE1	PHE A	32 149.252	-7.482	-3.758 1.00 0.00
ATOM 424	HE2	PHE A	32 147.140	-5.006	-1.004 1.00 0.00
ATOM 425	HZ	PHE A	32 148.266	-5.302	-3.174 1.00 0.00
ATOM 426	N	TYR A	33 146.038	-8.673	2.456 1.00 0.00
ATOM 427	CA	TYR A	33 145.302	-7.722	3.281 1.00 0.00
ATOM 428	С	TYR A	33 146.253	-6.758	3.983 1.00 0.00
ATOM 429	0	TYR A	33 147.107	-7.174	4.765 1.00 0.00
ATOM 430	CB	TYR A	33 144.453	-8.462	4.315 1.00 0.00
ATOM 431	CG	TYR A	33 143.141	-8.978	3.767 1.00 0.00
ATOM 432	CD1	TYR A	33 142.756	-10.298	3.963 1.00 0.00
ATOM 433	CD2	TYR A	33 142.290	-8.145	3.051 1.00 0.00
ATOM 434	CE1	TYR A	33 141.559	-10.773	3.462 1.00 0.00
ATOM 435	CE2	TYR A	33 141.092	-8.612	2.547 1.00 0.00
ATOM 436	CZ	TYR A	33 140.731	-9.927	2.755 1.00 0.00
ATOM 437	ОН	TYR A	33 139.538	-10.397	2.256 1.00 0.00
ATOM 438	Н	TYR A	33 146.812	-9.137	2.838 1.00 0.00
ATOM 439	HA	TYR A	33 144.650	-7.156	2.632 1.00 0.00
ATOM 440	1HB	TYR A	33 145.010	-9.308	4.690 1.00 0.00
ATOM 441	2HB	TYR A	33 144.231	-7.793	5.134 1.00 0.00
ATOM 442	HD1	TYR A	33 143.406	-10.958	4.516 1.00 0.00
ATOM 443	HD2	TYR A	33 142.577	-7.116	2.889 1.00 0.00
ATOM 444	HE1	TYR A	33 141.276	-11.802	3.625 1.00 0.00
ATOM 445	HE2	TYR A	33 140.443	-7.949	1.995 1.00 0.00
ATOM 446	НН	TYR A	33 139.663	-11.281	1.906 1.00 0.00
ATOM 447	N	GLY A	34 146.099	-5.469	3.698 1.00 0.00
ATOM 448	CA	GLY A	34 146.951	-4.466	4.310 1.00 0.00
ATOM 449	С	GLY A	34 146.174	-3.251	4.775 1.00 0.00
ATOM 450	0	GLY A	34 144.997	-3.095	4.450 1.00 0.00

ATOM 451	H	GLY A	34 145.401	-5.196	3.066 1.00 0.00
ATOM 452	1HA	GLY A	34 147.453	-4.907	5.160 1.00 0.00
ATOM 453	2HA	GLY A	34 147.693	-4.153	3.591 1.00 0.00
ATOM 454	N	VAL A	35 146.834	-2.386	5.539 1.00 0.00
ATOM 455	CA	VAL A	35 146.199	-1.178	6.051 1.00 0.00
ATOM 456	С	VAL A	35 146.808	0.071	5.421 1.00 0.00
ATOM 457	0	VAL A	35 148.011	0.125	5.164 1.00 0.00
ATOM 458	CB	VAL A	35 146.323	-1.085	7.585 1.00 0.00
ATOM 459	CG1	VAL A	35 147.784	-1.017	8.004 1.00 0.00
ATOM 460	CG2	VAL A	35 145.552	0.115	8.113 1.00 0.00
ATOM 461	H	VAL A	35 147.771	-2.566	5.764 1.00 0.00
ATOM 462	HA	VAL A	35 145.150	-1.221	5.797 1.00 0.00
ATOM 463	HB	VAL A	35 145.892	-1.978	8.014 1.00 0.00
ATOM 464	1HG1	VAL A	35 148.204	-0.071	7.695 1.00 0.00
ATOM 465	2HG	VAL A	35 148.330	-1.823	7.536 1.00 0.00
ATOM 466	3HG	L VAL A	35 147.856	-1.109	9.077 1.00 0.00
ATOM 467	1HG2	2 VAL A	35 145.807	0.279	9.150 1.00 0.00
ATOM 468	2HG2	2 VAL A	35 144.492	-0.072	8.028 1.00 0.00
ATOM 469	3HG	2 VAL A	35 145.810	0.992	7.536 1.00 0.00
ATOM 470	N	ILE A	36 145.971	1.073	5.176 1.00 0.00
ATOM 471	CA	ILE A	36 146.429	2.321	4.577 1.00 0.00
ATOM 472	С	ILE A	36 147.374	3.064	5.516 1.00 0.00
ATOM 473	0	ILE A	36 147.092	3.216	6.705 1.00 0.00
ATOM 474	CB	ILE A	36 145.246	3.243	4.222 1.00 0.00
ATOM 475	CG1	ILE A	36 144.208	2.484	3.392 1.00 0.00
ATOM 476	CG2	ILE A	36 145.738	4.471	3.468 1.00 0.00
ATOM 477	CD1	ILE A	36 142.999	3.317	3.025 1.00 0.00
ATOM 478	H	ILE A	36 145.024	0.971	5.403 1.00 0.00
ATOM 479	HA	ILE A	36 146.957	2.080	3.666 1.00 0.00

ATOM	480	HB	ILE	A	36	144.788	3.577	5.141	1.00	0.00
MOTA	481	1HG1	ILE	A	36	144.667	2.145	2.476	1.00	0.00
ATOM	482	2HG1	ILE	A	36	143.863	1.628	3.955	1.00	0.00
ATOM	483	1HG2	ILE	A	36	145.851	5.295	4.157	1.00	0.00
ATOM	484	2HG2	ILE	A	36	145.022	4.736	2.703	1.00	0.00
ATOM	485	3HG2	ILE	A	36	146.690	4.253	3.008	1.00	0.00
ATOM	486	1HD1	ILE	A	36	143.202	4.357	3.236	1.00	0.00
ATOM	487	2HD1	ILE	A	36	142.148	2.992	3.605	1.00	0.00
ATOM	488	3HD1	ILE	A	36	142.786	3.198	1.974	1.00	0.00
ATOM	489	N	ARG	A	37	148.499	3.521	4.974	1.00	0.00
ATOM	490	CA	ARG	A	37	149.487	4.246	5.763	1.00	0.00
ATOM	491	C	ARG	A	37	149.637	5.680	5.265	1.00	0.00
ATOM	492	0 .	ARG	A	37	149.354	6.632	5.992	1.00	0.00
ATOM	493	CB	ARG	A	37	150.838	3.530	5.706	1.00	0.00
ATOM	494	CG	ARG	A	37	150.753	2.046	6.021	1.00	0.00
ATOM	495	CD	ARG	A	37	150.195	1.803	7.414	1.00	0.00
ATOM	496	NE	ARG	A	37	151.099	2.281	8.457	1.00	0.00
ATOM	497	CZ	ARG	A	37	150.986	1.952	9.743	1.00	0.00
ATOM	498	NH1	ARG	A	37	150.012	1.148	10.146	1.00	0.00
ATOM	499	NH2	ARG	A	37	151.853	2.429	10.626	1.00	0.00
ATOM	500	H	ARG	A	37	148.667	3.368	4.021	1.00	0.00
ATOM	501	HA	ARG	A	37	149.145	4.267	6.787	1.00	0.00
ATOM	502	1HB	ARG	A	37	151.251	3.643	4.714	1.00	0.00
ATOM	503	2HB	ARG	A	37	151.507	3.990	6.419	1.00	0.00
ATOM	504	1HG	ARG	A	37	150.108	1.570	5.298	1.00	0.00
ATOM	505	2HG	ARG	A	37	151.743	1.618	5.960	1.00	0.00
ATOM	506	1HD	ARG	A	37	149.251	2.321	7.505	1.00	0.00
ATOM	507	2HD	ARG	A	37	150.037	0.742	7.545	1.00	0.00
ATOM	508	HE	ARG	A	37	151.828	2.877	8.187	1.00	0.00

ATOM	509	1HH1	ARG	A	37	149.355	0.785	9.486	1.00	0.00
ATOM	510	2HH1	ARG	A	37	149.933	0.905	11.114	1.00	0.00
ATOM	511	1HH2	ARG	A	37	152.590	3.035	10.327	1.00	0.00
ATOM	512	2HH2	ARG	A	37	151.769	2.182	11.592	1.00	0.00
ATOM	513	N	TRP	A	38	150.084	5.827	4.022	1.00	0.00
ATOM	514	ĊA	TRP	A	38	150.270	7.146	3.428	1.00	0.00
ATOM	515	С	TRP	A	38	149.501	7.268	2.117	1.00	0.00
ATOM	516	0	TRP	A	38	149.565	6.385	1.262	1.00	0.00
ATOM	517	CB	TRP	A	38	151.761	7.418	3.190	1.00	0.00
ATOM	518	CG	TRP	A	38	152.021	8.634	2.350	1.00	0.00
ATOM	519	CD1	TRP	A	38	152.212	9.911	2.791	1.00	0.00
ATOM	520	CD2	TRP	A	38	152.116	8.683	0.922	1.00	0.00
ATOM	521	NE1	TRP	A	38	152.417	10.753	1.725	1.00	0.00
ATOM	522	CE2	TRP	A	38	152.363	10.022	0.565	1.00	0.00
ATOM	523	CE3	TRP	A	38	152.014	7.725	-0.090	1.00	0.00
ATOM	524	CZ2	TRP	A	38	152.511	10.424	-0.760	1.00	0.00
ATOM	525	CZ3	TRP	A	38	152.162	8.125	-1.405	1.00	0.00
ATOM	526	CH2	TRP	A	38	152.408	9.465	-1.729	1.00	0.00
ATOM	527	H	TRP	A	38	150.293	5.030	3.491	1.00	0.00
ATOM	528	HA	TRP	A	38	149.888	7.879	4.123	1.00	0.00
ATOM	529	1HB	TRP	A	38	152.250	7.560	4.142	1.00	0.00
ATOM	530	2HB	TRP	A	38	152.198	6.566	2.690	1.00	0.00
ATOM	531	HD1	TRP	A	38	152.198	10.204	3.831	1.00	0.00
ATOM	532	HE1	TRP	Α	38	152.577	11.718	1.783	1.00	0.00
ATOM	533	HE3	TRP	Α	38	151.825	6.687	0.140	1.00	0.00
ATOM	534	HZ2	TRP	A	38	152.699	11.454	-1.027	1.00	0.00
ATOM	535	HZ3	TRP	Α	38	152.087	7.398	-2.200	1.00	0.00
ATOM	536	HH2	TRP	Α	38	152.516	9.733	-2.771	1.00	0.00
ATOM	537	N	ILE	A	39	148.781	8.374	1.963	1.00	0.00

ATOM	538	CA	ILE .	A 39	9	148.004	8.624	0.756	1.00	0.00
ATOM	539	C	ILE .	A 3	9	148.406	9.950	0.121	1.00	0.00
ATOM	540	0	ILE .	A 3	9	148.069	11.019	0.631	1.00	0.00
ATOM	541	CB	ILE .	A 3	9	146.492	8.645	1.051	1.00	0.00
ATOM	542	CG1	ILE .	A 3	9	146.088	7.406	1.853	1.00	0.00
ATOM	543	CG2	ILE .	A 3	9	145.699	8.725	-0.245	1.00	0.00
ATOM	544	CD1	ILE .	A 3	9	144.772	7.560	2.583	1.00	0.00
ATOM	545	H	ILE .	A 3	9	148.776	9.043	2.680	1.00	0.00
ATOM	546	HA	ILE .	A 3	9	148.205	7.824	0.056	1.00	0.00
ATOM	547	HB	ILE	A 3	9	146.274	9.527	1.633	1.00	0.00
ATOM	548	1HG1	ILE .	A 3	9	145.997	6.564	1.182	1.00	0.00
ATOM	549	2HG1	ILE	A 3	9	146.852	7. 195	2.587	1.00	0.00
ATOM	550	1HG2	ILE	A 3	9	144.687	9.034	-0.029	1.00	0.00
ATOM	551	2HG2	ILE	A 3	9	145.686	7.756	-0.720	1.00	0.00
ATOM	552	3HG2	ILE	A 3	9	146.162	9.443	-0.905	1.00	0.00
ATOM	553	1HD1	ILE	A 3	9	144.751	8.514	3.089	1.00	0.00
ATOM	554	2HD1	ILE	А 3	9	144.666	6.766	3.306	1.00	0.00
ATOM	555	3HD1	ILE	A 3	9	143.960	7.512	1.874	1.00	0.00
ATOM	556	N	GLY	A 4	0	149.135	9.876	-0.987	1.00	0.00
ATOM	557	CA	GLY	A 4	0	149.575	11.083	-1.663	1.00	0.00
ATOM	558	С	GLY	A 4	0	150.097	10.816	-3.060	1.00	0.00
ATOM	559	0	GLY	A 4	0	149.921	9.724	-3.600	1.00	0.00
ATOM	560	H	GLY	A 4	0	149.378	8.997	-1.348	1.00	0.00
ATOM	561	1HA	GLY	A 4	0	148.745	11.769	-1.727	1.00	0.00
ATOM	562	2HA	GLY	A 4	0	150.359	11.540	-1.079	1.00	0.00
ATOM	563	N	GLN	A 4	1	150.741	11.820	-3.644	1.00	0.00
ATOM	564	CA	GLN	A 4	1	151.294	11.701	-4.987	1.00	0.00
ATOM	565	С	GLN	A 4	.1	152.768	12.102	-5.001	1.00	0.00
ATOM	566	0	GLN	A 4	1	153.105	13.259	-4.749	1.00	0.00

ATOM 567	СВ	GLN A	41 150.504	12.581	-5.956 1.00 0.00
ATOM 568	CG	GLN A	41 148.998	12.402	-5.849 1.00 0.00
ATOM 569	CD	GLN A	41 148.246	13.712	-5.972 1.00 0.00
ATOM 570	OE1	GLN A	41 148.223	14.518	-5.040 1.00 0.00
ATOM 571	NE2	GLN A	41 147.627	13.933	-7.125 1.00 0.00
ATOM 572	H	GLN A	41 150.847	12.665	-3.160 1.00 0.00
ATOM 573	HA	GLN A	41 151.205	10.672	-5.295 1.00 0.00
ATOM 574	1HB	GLN A	41 150.737	13.616	-5.753 1.00 0.00
ATOM 575	2HB	GLN A	41 150.804	12.344	-6.964 1.00 0.00
ATOM 576	1HG	GLN A	41 148.670	11.741	-6.637 1.00 0.00
ATOM 577	2HG	GLN A	41 148.767	11.960	-4.891 1.00 0.00
ATOM 578	1HE2	GLN A	41 147.689	13.246	-7.822 1.00 0.00
ATOM 579	2HE2	GLN A	41 147.135	14.773	-7.233 1.00 0.00
ATOM 580	N	PRO A	42 153.674	11.150	-5.295 1.00 0.00
ATOM 581	CA	PRO A	42 155.115	11.422	-5.336 1.00 0.00
ATOM 582	С	PRO A	42 155.468	12.529	-6.324 1.00 0.00
ATOM 583	0	PRO A	42 154.696	12.830	-7.233 1.00 0.00
ATOM 584	CB	PRO A	42 155.723	10.089	-5.787 1.00 0.00
ATOM 585	CG	PRO A	42 154.699	9.066	-5.440 1.00 0.00
ATOM 586	CD	PRO A	42 153.371	9.743	-5.609 1.00 0.00
ATOM 587	HA	PRO A	42 155.495	11.680	-4.358 1.00 0.00
ATOM 588	1HB	PRO A	42 155.909	10.118	-6.851 1.00 0.00
ATOM 589	2HB	PRO A	42 156.648	9.915	-5.259 1.00 0.00
ATOM 590	1HG	PRO A	42 154.778	8.222	-6.110 1.00 0.00
ATOM 591	2HG	PRO A	42 154.830	8.746	-4.416 1.00 0.00
ATOM 592	1HD	PRO A	42 153.021	9.641	-6.626 1.00 0.00
ATOM 593	2HD	PRO A	42 152.648	9.341	-4.916 1.00 0.00
ATOM 594	N	PRO A	43 156.647	13. 151	-6.158 1.00 0.00
ATOM 595	CA	PRO A	43 157.102	14.228	-7.040 1.00 0.00

ATOM 596	С	PRO A	43 157.497	13.719 -8.421 1.00 0.00
ATOM 597	0	PRO A	43 158.662	13.408 -8.668 1.00 0.00
ATOM 598	CB	PRO A	43 158.322	14.792 -6.312 1.00 0.00
ATOM 599	CG	PRO A	43 158.835	13.657 -5.497 1.00 0.00
ATOM 600	CD	PRO A	43 157.629	12.850 -5.098 1.00 0.00
ATOM 601	HA	PRO A	43 156.351	14.999 -7.142 1.00 0.00
ATOM 602	1HB	PRO A	43 159.052	15.121 -7.037 1.00 0.00
ATOM 603	2HB	PRO A	43 158.023	15.622 -5.691 1.00 0.00
ATOM 604	1HG	PRO A	43 159.510	13.056 -6.088 1.00 0.00
ATOM 605	2HG	PRO A	43 159.339	14.035 -4.619 1.00 0.00
ATOM 606	1HD	PRO A	43 157.869	11.797 -5.082 1.00 0.00
ATOM 607	2HD	PRO A	43 157.264	13.170 -4.134 1.00 0.00
ATOM 608	N	GLY A	44 156.521	13.636 -9.317 1.00 0.00
ATOM 609	CA	GLY A	44 156.790	13.162 -10.661 1.00 0.00
ATOM 610	C	GLY A	44 155.552	12.623 -11.346 1.00 0.00
ATOM 611	0	GLY A	44 155.237	13.014 -12.471 1.00 0.00
ATOM 612	H	GLY A	44 155.610	13.897 -9.064 1.00 0.00
ATOM 613	1HA	GLY A	44 157.183	13.980 -11.245 1.00 0.00
ATOM 614	2HA	GLY A	44 157.532	12.380 -10.613 1.00 0.00
ATOM 615	N	LEU A	45 154.848	11.724 -10.670 1.00 0.00
ATOM 616	CA	LEU A	45 153.637	11.131 -11.224 1.00 0.00
ATOM 617	С	LEU A	45 152.440	11.401 -10.319 1.00 0.00
ATOM 618	0	LEU A	45 152.369	10.888 -9.203 1.00 0.00
ATOM 619	CB	LEU A	45 153.820	9.623 -11.409 1.00 0.00
ATOM 620	CG	LEU A	45 154.384	8.886 -10.192 1.00 0.00
ATOM 621	CD1	LEU A	45 154.025	7.407 -10.247 1.00 0.00
ATOM 622	CD2	LEU A	45 155.893	9.072 -10.107 1.00 0.00
ATOM 623	H	LEU A	45 155.148	11.452 -9.775 1.00 0.00
ATOM 624	HA	LEU A	45 153.455	11.583 -12.186 1.00 0.00

ATOM 625	1HB LEU A	45 152.860	9.192 -11.653 1.00 0.00
ATOM 626	2HB LEU A	45 154.490	9.462 -12.240 1.00 0.00
ATOM 627	HG LEU A	45 153.945	9.301 -9.295 1.00 0.00
ATOM 628	1HD1 LEU A	45 153.490	7.134 -9.349 1.00 0.00
ATOM 629	2HD1 LEU A	45 154.928	6.819 -10.320 1.00 0.00
ATOM 630	3HD1 LEU A	45 153.402	7.218 -11.108 1.00 0.00
ATOM 631	1HD2 LEU A	45 156.162	9.381 -9.108 1.00 0.00
ATOM 632	2HD2 LEU A	45 156.205	9.827 -10.813 1.00 0.00
ATOM 633	3HD2 LEU A	45 156.385	8.138 -10.339 1.00 0.00
ATOM 634	N ASN A	46 151.505	12.210 -10.803 1.00 0.00
ATOM 635	CA ASN A	46 150.318	12.539 -10.025 1.00 0.00
ATOM 636	C ASN A	46 149.367	11.349 -9.971 1.00 0.00
ATOM 637	O ASN A	46 148.723	11.008 -10.964 1.00 0.00
ATOM 638	CB ASN A	46 149.608	13.751 -10.630 1.00 0.00
ATOM 639	CG ASN A	46 148.879	14.574 -9.586 1.00 0.00
ATOM 640	OD1 ASN A	46 147.654	14.691 -9.615 1.00 0.00
ATOM 641	ND2 ASN A	46 149.632	15.152 -8.657 1.00 0.00
ATOM 642	H ASN A	46 151.613	12.592 -11.699 1.00 0.00
ATOM 643	HA ASN A	46 150.633	12.780 -9.020 1.00 0.00
ATOM 644	1HB ASN A	46 150.337	14.383 -11.114 1.00 0.00
ATOM 645	2HB ASN A	46 148.889	13.411 -11.361 1.00 0.00
ATOM 646	1HD2 ASN A	46 150.602	15.015 -8.696 1.00 0.00
ATOM 647	2HD2 ASN A	46 149.188	15.690 -7.970 1.00 0.00
ATOM 648	N GLU A	47 149.285	10.721 -8.804 1.00 0.00
ATOM 649	CA GLU A	47 148.415	9.568 -8.612 1.00 0.00
ATOM 650	C GLU A	47 148.262	9.248 -7.130 1.00 0.00
ATOM 651	O GLU	A 47 149.245	8.978 -6.440 1.00 0.00
ATOM 652	CB GLU	A 47 148.970	8.349 -9.354 1.00 0.00
ATOM 653	CG GLU	A 47 150.485	8.230 -9.290 1.00 0.00

ATOM 654	CD	GLU A	47 151.036	7.254	-10.311 1.00 0.00
ATOM 655	0E1	GLU A	47 151.168	7.641	-11.491 1.00 0.00
ATOM 656	0E2	GLU A	47 151.336	6.103	-9.930 1.00 0.00
ATOM 657	H	GLU A	47 149.824	11.041	-8.052 1.00 0.00
ATOM 658	HA	GLU A	47 147.445	9.813	-9.017 1.00 0.00
ATOM 659	1HB	GLU A	47 148.543	7.455	-8.923 1.00 0.00
ATOM 660	2HB	GLU A	47 148.680	8.411	-10.392 1.00 0.00
ATOM 661	1HG	GLU A	47 150.917	9.201	-9.474 1.00 0.00
ATOM 662	2HG	GLU A	47 150.767	7.894	-8.303 1.00 0.00
ATOM 663	N	VAL A	48 147.026	9.273	-6.644 1.00 0.00
ATOM 664	CA	VAL A	48 146.758	8.977	-5.243 1.00 0.00
ATOM 665	С	VAL A	48 147.120	7.533	-4.918 1.00 0.00
ATOM 666	0	VAL A	48 146.338	6.615	-5.169 1.00 0.00
ATOM 667	СВ	VAL A	48 145.279	9.219	-4.888 1.00 0.00
ATOM 668	CG1	VAL A	48 145.066	9.114	-3.386 1.00 0.00
ATOM 669	CG2	VAL A	48 144.820	10.574	-5.405 1.00 0.00
ATOM 670	Н	VAL A	48 146.280	9.489	-7.241 1.00 0.00
ATOM 671	HA	VAL A	48 147.366	9.636	-4.640 1.00 0.00
ATOM 672	HB	VAL A	48 144.684	8.455	-5.368 1.00 0.00
ATOM 673	1HG1	VAL A	48 145.014	8.072	-3.102 1.00 0.00
ATOM 674	2HG]	I VAL A	48 144.142	9.606	-3.117 1.00 0.00
ATOM 675	3HG	I VAL A	48 145.889	9.587	-2.872 1.00 0.00
ATOM 676	1HG2	2 VAL A	48 144.651	10.515	-6.470 1.00 0.00
ATOM 677	2HG2	2 VAL A	48 145.580	11.314	-5.202 1.00 0.00
ATOM 678	3HG2	2 VAL A	48 143.903	10.857	-4.910 1.00 0.00
ATOM 679	N	LEU A	49 148.309	7.339	-4.362 1.00 0.00
ATOM 680	CA	LEU A	49 148.777	6.005	-4.005 1.00 0.00
ATOM 681	С	LEU A	49 148.742	5.809	-2.496 1.00 0.00
ATOM 682	0	LEU A	49 149.455	6.486	-1.756 1.00 0.00

ATOM 68	з СВ	LEU A	49 150.197	5.781	-4.528 1.00 0.00
ATOM 68	4 CG	LEU A	49 150.343	5.837	-6.050 1.00 0.00
ATOM 68	5 CD1	LEU A	49 151.745	6.281	-6.435 1.00 0.00
ATOM 68	6 CD2	LEU A	49 150.022	4.483	-6.664 1.00 0.00
ATOM 68	7 H	LEU A	49 148.888	8.110	-4.186 1.00 0.00
ATOM 68	8 HA	LEU A	49 148.115	5.287	-4.466 1.00 0.00
ATOM 68	9 1HB	LEU A	49 150.840	6.535	-4.097 1.00 0.00
ATOM 69	0 2HB	LEU A	49 150.532	4.812	-4.192 1.00 0.00
ATOM 69	1 HG	LEU A	49 149.643	6.559	-6.446 1.00 0.00
ATOM 69	2 1HD1	LEU A	49 151.964	7.230	-5.968 1.00 0.00
ATOM 69	3 2HD1	LEU A	49 151.808	6.384	-7.507 1.00 0.00
ATOM 69	94 3HD1	LEU A	49 152.461	5.543	-6.102 1.00 0.00
ATOM 69	95 1HD2	LEU A	49 149.950	4.582	-7.737 1.00 0.00
ATOM 69	96 2HD2	LEU A	49 149.083	4.122	-6.272 1.00 0.00
ATOM 69	97 3HD2	LEU A	49 150.807	3.782	-6.420 1.00 0.00
ATOM 69	98 N	ALA A	50 147.908	4.880	-2.044 1.00 0.00
ATOM 69	99 CA	ALA A	50 147.783	4.602	-0.621 1.00 0.00
ATOM 70	00 C	ALA A	50 148.733	3.488	-0.195 1.00 0.00
ATOM 7	01 0	ALA A	50 148.596	2.343	-0.625 1.00 0.00
ATOM 7	02 CB	ALA A	50 146.347	4.234	-0.280 1.00 0.00
ATOM 7	03 H	ALA A	50 147.363	4.374	-2.682 1.00 0.00
ATOM 7	04 HA	ALA A	50 148.036	5.505	-0.086 1.00 0.00
ATOM 7	05 1HB	ALA A	50 146.227	3.162	-0.329 1.00 0.00
ATOM 7	06 2HB	ALA A	50 145.677	4.704	-0.985 1.00 0.00
ATOM 7	07 3HB	ALA A	50 146.115	4.577	0.718 1.00 0.00
ATOM 7	08 N	GLY A	51 149.697	3.832	0.653 1.00 0.00
ATOM 7	09 CA	GLY A	51 150.656	2.850	1.123 1.00 0.00
ATOM 7	10 C	GLY A	51 150.023	1.805	2.019 1.00 0.00
ATOM 7	711 0	GLY A	51 149.665	2.092	3.162 1.00 0.00

ATOM '	712	п	CIV A	51	149.757	A 750	0 962	1 00	0.00
ATOM					151.098				
ATOM					151.434				
ATOM	715	N	LEU A	52	149.882	0.589	1.501	1.00	0.00
ATOM	716	CA	LEU A	52	149.286	-0.502	2.264	1.00	0.00
ATOM	717	С	LEU A	52	150.362	-1.350	2.933	1.00	0.00
ATOM	718	0	LĖU A	52	151.348	-1.734	2.303	1.00	0.00
ATOM	719	CB	LEU A	52	148.423	-1.376	1.353	1.00	0.00
ATOM	720	CG	LEU A	52	147.132	-0.721	0.860	1.00	0.00
ATOM	721	CD1	LEU A	52	146.434	-1.615	-0.154	1.00	0.00
ATOM	722	CD2	LEU A	52	146.209	-0.418	2.031	1.00	0.00
MOTA	723	Н	LEU A	52	150.186	0.422	0.585	1.00	0.00
ATOM	724	HA	LEU A	52	148.660	-0.067	3.029	1.00	0.00
ATOM	725	1HB	LEU A	52	149.014	-1.654	0.492	1.00	0.00
ATOM	726	2HB	LEU A	52	148.162	-2.274	1.893	1.00	0.00
ATOM	727	HG	LEU A	52	147.372	0.212	0.373	1.00	0.00
ATOM	728	1HD1	LEU A	52	147.160	-2.260	-0.625	1.00	0.00
ATOM	729	2HD1	LEU A	52	145.957	-1.002	-0.905	1.00	0.00
ATOM	730	3HD1	LEU A	52	145.689	-2.215	0.348	1.00	0.00
ATOM	731	1HD2	LEU A	52	146.708	0.245	2.721	1.00	0.00
ATOM	732	2HD2	LEU A	52	145.955	-1.339	2.536	1.00	0.00
ATOM	733	3HD2	LEU A	52	145.308	0.053	1.666	1.00	0.00
ATOM	734	N	GLU A	. 53	3 150.166	-1.641	4.216	1.00	0.00
ATOM	735	CA	GLU A	. 53	3 151.119	-2.445	4.972	1.00	0.00
ATOM	736	С	GLU A	53	3 150.624	-3.880	5.117	1.00	0.00
ATOM	737	0	GLU A	53	3 149.715	-4.158	5.899	1.00	0.00
ATOM	738	CB	GLU A	. 53	3 151.353	-1.830	6.353	1.00	0.00
ATOM	739	CG	GLU A	53	3 152.363	-2.593	7.195	1.00	0.00
. ATOM	740	CD	GLU A	53	3 151.997	-2.614	8.666	1.00	0.00

ATOM	741	OE1	GLU A	53	152.380	-3.580	9.360	1.00	0.00
ATOM	742	OE2	GLU A	1 53	151.327	-1.665	9.126	1.00	0.00
ATOM	743	Н	GLU A	A 53	149.362	-1.306	4.663	1.00	0.00
ATOM	744	HA	GLU A	A 53	152.053	-2.451	4.428	1.00	0.00
ATOM	745	1HB	GLU A	A 53	151.710	-0.819	6.229	1.00	0.00
ATOM	746	2HB	GLU A	A 53	150.414	-1.808	6.887	1.00	0.00
ATOM	747	1HG	GLU A	A 53	152.415	-3.610	6.838	1.00	0.00
ATOM	748	2HG	GLU A	A 53	153.330	-2.124	7.086	1.00	0.00
ATOM	749	N	LEU A	A 54	151.229	-4.789	4.359	1.00	0.00
ATOM	750	CA	LEU A	A 54	150.850	-6.196	4.403	1.00	0.00
ATOM	751	С	LEU A	A 54	151.179	-6.805	5.763	1.00	0.00
ATOM	752	0	LEU A	A 54	152.268	-6.599	6.300	1.00	0.00
ATOM	753	CB	LEU A	A 54	151.564	-6.973	3.296	1.00	0.00
ATOM	754	CG	LEU A	A 54	151.397	-6.396	1.889	1.00	0.00
ATOM	755	CD1	LEU A	A 54	152.493	-6.907	0.968	1.00	0.00
ATOM	756	CD2	LEU A	A 54	150.025	-6.742	1.331	1.00	0.00
ATOM	757	Н	LEU A	A 54	151.948	-4.506	3.755	1.00	0.00
ATOM	758	HA	LEU A	A 54	149.784	-6.257	4.244	1.00	0.00
ATOM	759	1HB	LEU A	A 54	152.618	-7.003	3.529	1.00	0.00
ATOM	760	2HB	LEU A	A 54	151.183	-7.984	3.293	1.00	0.00
ATOM	761	HG	LEU A	A 54	151.478	-5.319	1.938	1.00	0.00
ATOM	762	1HD1	LEU A	A 54	153.458	-6.635	1.372	1.00	0.00
ATOM	763	2HD1	LEU A	A 54	152.376	-6.467	-0.011	1.00	0.00
ATOM	764	3HD1	LEU A	A 54	152.426	-7.982	0.891	1.00	0.00
ATOM	765	1HD2	LEU A	A 54	149.885	-7.812	1.357	1.00	0.00
ATOM	766	2HD2	LEU A	A 54	149.953	-6.394	0.312	1.00	0.00
ATOM	767	3HD2	LEU A	A 54	149.262	-6.266	1.929	1.00	0.00
ATOM	768	N	GLU A	A 55	150.231	-7.556	6.314	1.00	0.00
ATOM	769	CA	GLU A	A 55	150.420	-8.196	7.610	1.00	0.00

ATOM 770	C	GLU A	55 151.540	-9.230	7.551 1.00 0.00
ATOM 771	0	GLU A	55 152.232	-9.466	8.542 1.00 0.00
ATOM 772	CB	GLU A	55 149.120	-8.861	8.068 1.00 0.00
ATOM 773	CG	GLU A	55 148.144	-7.900	8.725 1.00 0.00
ATOM 774	CD	GLU A	55 148.143	-8.013	10.237 1.00 0.00
ATOM 775	0E1	GLU A	55 149.238	-7.979	10.837 1.00 0.00
ATOM 776	0E2	GLU A	55 147.046	-8.137	10.823 1.00 0.00
ATOM 777	Н	GLU A	55 149.385	-7.684	5.837 1.00 0.00
ATOM 778	HA	GLU A	55 150.690	-7.429	8.321 1.00 0.00
ATOM 779	1HB	GLU A	55 148.635	-9.303	7.210 1.00 0.00
ATOM 780	2HB	GLU A	55 149.358	-9.639	8.778 1.00 0.00
ATOM 781	1HG	GLU A	55 148.415	-6.890	8.457 1.00 0.00
ATOM 782	2HG	GLU A	55 147.148	-8.113	8.362 1.00 0.00
ATOM 783	N	ASP A	56 151.713	-9.843	6.385 1.00 0.00
ATOM 784	CA	ASP A	56 152.748	-10.852	6.199 1.00 0.00
ATOM 785	С	ASP A	56 153.972	-10.256	5.509 1.00 0.00
ATOM 786	0	ASP A	56 153.857	-9.318	4.722 1.00 0.00
ATOM 787	CB	ASP A	56 152.207	-12.024	5.379 1.00 0.00
ATOM 788	CG	ASP A	56 152.759	-13.358	5.842 1.00 0.00
ATOM 789	OD1	ASP A	56 152.112	-14.007	6.689 1.00 0.00
ATOM 790	0D2	ASP A	56 153.839	-13.754	5.355 1.00 0.00
ATOM 791	H	ASP A	56 151.130	-9.612	5.632 1.00 0.00
ATOM 792	HA	ASP A	56 153.040	-11.212	7.174 1.00 0.00
ATOM 793	1HB	ASP A	56 151.131	-12.052	5.468 1.00 0.00
ATOM 794	2HE	ASP A	56 152.474	-11.884	4.341 1.00 0.00
ATOM 795	N	GLU A	57 155.142	2 -10.810	5.811 1.00 0.00
ATOM 796	CA	GLU A	57 156.387	-10.334	5.219 1.00 0.00
ATOM 797	С	GLU A	57 156.650	-11.019	3.882 1.00 0.00
ATOM 798	0	GLU A	57 156.986	5 -12.203	3.836 1.00 0.00

ATOM 799	CB	GLU A	57 157.558 -10.584	6.172 1.00 0.00
ATOM 800	CG	GLU A	57 157.490 -9.760	7.448 1.00 0.00
ATOM 801	CD	GLU A	57 158.429 -10.272	8.522 1.00 0.00
ATOM 802	OE1	GLU A	57 159.608 -10.536	8.205 1.00 0.00
ATOM 803	0E2	GLU A	57 157.985 -10.409	9.682 1.00 0.00
ATOM 804	Н	GLU A	57 155.169 -11.556	6.445 1.00 0.00
ATOM 805	HA	GLU A	57 156.291 -9.272	5.053 1.00 0.00
ATOM 806	1HB	GLU A	57 157.567 -11.629	6.445 1.00 0.00
ATOM 807	2HB	GLU A	57 158.480 -10.345	5.663 1.00 0.00
ATOM 808	1HG	GLU A	57 157.756 -8.740	7.216 1.00 0.00
ATOM 809	2HG	GLU A	57 156.480 -9.791	7.828 1.00 0.00
ATOM 810	N	CYS A	58 156.495 -10.269	2.797 1.00 0.00
ATOM 811	CA	CYS A	58 156.716 -10.804	1.459 1.00 0.00
ATOM 812	C	CYS A	58 157.997 -10.242	0.851 1.00 0.00
ATOM 813	0	CYS A	58 158.317 -9.067	1.030 1.00 0.00
ATOM 814	CB	CYS A	58 155.524 -10.482	0.554 1.00 0.00
ATOM 815	SG	CYS A	58 154.176 -11.683	0.653 1.00 0.00
ATOM 816	Н	CYS A	58 156.226 -9.331	2.898 1.00 0.00
ATOM 817	HA	CYS A	58 156.812 -11.877	1.542 1.00 0.00
ATOM 818	1HB	CYS A	58 155.125 -9.517	0.830 1.00 0.00
ATOM 819	2HB	CYS A	58 155.861 -10.447	-0.472 1.00 0.00
ATOM 820	HG	CYS A	58 154.554 -12.533	0.888 1.00 0.00
ATOM 821	N	ALA A	59 158.726 -11.089	0.133 1.00 0.00
ATOM 822	CA	ALA A	59 159.972 -10.677	-0.502 1.00 0.00
ATOM 823	C	ALA A	59 159.708 -9.725	-1.664 1.00 0.00
ATOM 824	0	ALA A	59 159.129 -10.113	-2.678 1.00 0.00
ATOM 825	СВ	ALA A	59 160.747 -11.895	-0.981 1.00 0.00
ATOM 826	Н	ALA A	59 158.418 -12.014	0.026 1.00 0.00
ATOM 827	HA	ALA A	59 160.570 -10.168	0.239 1.00 0.00

ATOM 828	1HB	ALA A	59 161.352 -	-11.625	-1.834 1.00 0.00
ATOM 829	2HB	ALA A	59 160.054 -	-12.674	-1.265 1.00 0.00
ATOM 830	ЗНВ	ALA A	59 161.385 -	-12.252	-0.186 1.00 0.00
ATOM 831	N	GLY A	60 160.136	-8.476	-1.508 1.00 0.00
ATOM 832	CA	GLY A	60 159.937	-7.489	-2.551 1.00 0.00
ATOM 833	C	GLY A	60 159.402	-6.175	-2.012 1.00 0.00
ATOM 834	0	GLY A	60 159.649	-5.115	-2.587 1.00 0.00
ATOM 835	H	GLY A	60 160.591	-8.225	-0.677 1.00 0.00
ATOM 836	1HA	GLY A	60 160.880	-7.305	-3.044 1.00 0.00
ATOM 837	2HA	GLY A	60 159.236	-7.880	-3.274 1.00 0.00
ATOM 838	N	CYS A	61 158.669	-6.247	-0.907 1.00 0.00
ATOM 839	CA	CYS A	61 158.098	-5.055	-0.290 1.00 0.00
ATOM 840	С	CYS A	61 159.175	-4.242	0.422 1.00 0.00
ATOM 841	0	CYS A	61 160.259	-4.749	0.712 1.00 0.00
ATOM 842	CB	CYS A	61 156.999	-5.444	0.700 1.00 0.00
ATOM 843	SG	CYS A	61 155.806	-6.635	0.046 1.00 0.00
ATOM 844	H	CYS A	61 158.508	-7.121	-0.495 1.00 0.00
ATOM 845	HA	CYS A	61 157.667	-4.450	-1.074 1.00 0.00
ATOM 846	1HB	CYS A	61 157.452	-5.882	1.576 1.00 0.00
ATOM 847	2HB	CYS A	61 156.453	-4.556	0.988 1.00 0.00
ATOM 848	HG	CYS A	61 156.257	-7.181	-0.602 1.00 0.00
ATOM 849	N	THR A	62 158.869	-2.979	0.700 1.00 0.00
ATOM 850	CA	THR A	62 159.811	-2.096	1.378 1.00 0.00
ATOM 851	С	THR A	62 159.450	-1.944	2.852 1.00 0.00
ATOM 852	0	THR A	62 158.508	-2.571	3.338 1.00 0.00
ATOM 853	CB	THR A	62 159.834	-0.725	0.702 1.00 0.00
ATOM 854	OG1	THR A	62 158.569	-0.422	0.140 1.00 0.00
ATOM 855	CG2	THR A	62 160.865	-0.617	-0.400 1.00 0.00
ATOM 856	H	THR A	62 157.989	-2.632	0.443 1.00 0.00

ATOM	857	HA	THR	A	62	160.793	-2.540	1.305	1.00	0.00
ATOM	858	HB	THR	A	62	160.063	0.027	1.444	1.00	0.00
ATOM	859	HG1	THR	A	62	158.577	0.476	-0.200	1.00	0.00
ATOM	860	1HG2	THR	A	62	161.107	0.422	-0.567	1.00	0.00
ATOM	861	2HG2	THR	A	62	160.466	-1.044	-1.309	1.00	0.00
ATOM	862	3HG2	THR	A	62	161.757	-1.153	-0.112	1.00	0.00
ATOM	863	N	ASP	A	63	160.204	-1.108	3.557	1.00	0.00
ATOM	864	CA	ASP	A	63	159.963	-0.873	4.977	1.00	0.00
ATOM	865	С	ASP	A	63	159.263	0.463	5.197	1.00	0.00
ATOM	866	0	ASP	A	63	159.501	1.144	6.194	1.00	0.00
ATOM	867	CB	ASP	A	63	161.283	-0.905	5.752	1.00	0.00
ATOM	868	CG	ASP	A	63	162.354	-0.050	5.104	1.00	0.00
ATOM	869	0D1	ASP	A	63	163.372	-0.615	4.652	1.00	0.00
ATOM	870	OD2	ASP	A	63	162.175	1.185	5.048	1.00	0.00
ATOM	871	H	ASP	A	63	160.940	-0.637	3.114	1.00	0.00
ATOM	872	HA	ASP	A	63	159.324	-1.665	5.339	1.00	0.00
ATOM	873	1HB	ASP	A	63	161.114	-0.538	6.753	1.00	0.00
ATOM	874	2HB	ASP	A	63	161.640	-1.922	5.800	1.00	0.00
ATOM	875	N	GLY	A	64	158.398	0.833	4.258	1.00	0.00
ATOM	876	CA	GLY	A	64	157.676	2.087	4.367	1.00	0.00
ATOM	877	С	GLY	A	64	158.318	3.199	3.562	1.00	0.00
ATOM	878	0	GLY	Α	64	158.413	4.336	4.025	1.00	0.00
ATOM	879	H	GLY	Α	64	158. 249	0.250	3.485	1.00	0.00
ATOM	880	1HA	GLY	A	64	156.666	1.940	4.016	1.00	0.00
ATOM	881	2HA	GLY	A	64	157.644	2.382	5.406	1.00	0.00
ATOM	882	N	THR	A	65	158.763	2.871	2.353	1.00	0.00
ATOM	883	CA	THR	A	65	159.400	3.850	1.481	1.00	0.00
ATOM	884	С	THR	A	65	159.035	3.600	0.022	1.00	0.00
ATOM	885	0	THE	A S	65	159.312	2.531	-0.524	1.00	0.00

ATOM	886	CB	THR	A	65	160.919	3.805	1.652	1.00	0.00
MOTA	887	0G1	THR	A	65	161.395	2.473	1.559	1.00	0.00
ATOM	888	CG2	THR	A	65	161.390	4.368	2.976	1.00	0.00
ATOM	889	H	THR	A	65	158.659	1.948	2.040	1.00	0.00
ATOM	890	HA	THR	A	65	159.044	4.829	1.766	1.00	0.00
ATOM	891	HB	THR	A	65	161.377	4.385	0.865	1.00	0.00
ATOM	892	HG1	THR	A	65	161.050	2.065	0.762	1.00	0.00
ATOM	893	1HG2	THR	A	65	160.959	5.348	3.123	1.00	0.00
ATOM	894	2HG2	THR	A	65	162.466	4.445	2.972	1.00	0.00
ATOM	895	3HG2	THR	A	65	161.078	3.714	3.777	1.00	0.00
ATOM	896	N	PHE	A	66	158.411	4.591	-0.606	1.00	0.00
ATOM	897	CA	PHE	A	66	158.008	4.479	-2.003	1.00	0.00
MOTA	898	С	PHE	A	66	159.094	5.022	-2.927	1.00	0.00
ATOM	899	0	PHE	A	66	159.201	6.230	-3.130	1.00	0.00
ATOM	900	CB	PHE	A	66	156.697	5.230	-2.241	1.00	0.00
ATOM	901	CG	PHE	A	66	156.012	4.848	-3.522	1.00	0.00
ATOM	902	CD1	PHE	A	66	155.529	5.822	-4.381	1.00	0.00
ATOM	903	CD2	PHE	A	66	155.849	3.516	-3.865	1.00	0.00
ATOM	904	CE1	PHE	A	66	154.899	5.474	-5.560	1.00	0.00
ATOM	905	CE2	PHE	A	66	155.218	3.161	-5.042	1.00	0.00
ATOM	906	CZ	PHE	A	66	154.742	4.141	-5.892	1.00	0.00
ATOM	907	H	PHE	A	66	158.218	5.419	-0.118	1.00	0.00
ATOM	908	HA	PHE	A	66	157.857	3.432	-2.220	1.00	0.00
ATOM	909	1HB	PHE	A	66	156.019	5.023	-1.427	1.00	0.00
ATOM	910	2HB	PHE	A	66	156.900	6.290	-2.274	1.00	0.00
ATOM	911	HD1	PHE	A	66	155.652	6.864	-4.124	1.00	0.00
ATOM	912	HD2	PHE	A	66	156. 220	2.748	-3.202	1.00	0.00
ATOM	913	HE1	PHE	A	66	154.528	6.242	-6.223	1.00	0.00
ATOM	914	HE2	PHE	A	66	155.098	2.119	-5.299	1.00	0.00

ATOM 9	915	HZ	PHE	A	66	154.250	3.867	-6.812	1.00	0.00
ATOM 9	916	N	ARG	A	67	159.896	4.119	-3.483	1.00	0.00
ATOM S	917	CA	ARG	A	67	160.973	4.509	-4.386	1.00	0.00
ATOM S	918	С	ARG	A	67	161.960	5.438	-3.686	1.00	0.00
ATOM S	919	0	ARG	A	67	162.592	6.281	-4.322	1.00	0.00
ATOM S	920	CB	ARG	A	67	160.404	5.194	-5.629	1.00	0.00
ATOM S	921	CG	ARG	A	67	159.247	4.438	-6.263	1.00	0.00
ATOM S	922	CD	ARG	A	67	158.335	5.371	-7.047	1.00	0.00
ATOM	923	NE	ARG	A	67	158.608	5.327	-8.481	1.00	0.00
ATOM	924	CZ	ARG	A	67	158.258	4.314	-9.271	1.00	0.00
ATOM	925	NH1	ARG	A	67	157.622	3.261	-8.771	1.00	0.00
ATOM	926	NH2	ARG	A	67	158.544	4.354	-10.566	1.00	0.00
ATOM	927	H	ARG	A	67	159.759	3.170	-3.282	1.00	0.00
ATOM	928	HA	ARG	A	67	161.493	3.612	-4.686	1.00	0.00
ATOM	929	1HB	ARG	A	67	160.055	6.179	-5.355	1.00	0.00
ATOM	930	2HB	ARG	A	67	161.188	5.290	-6.365	1.00	0.00
ATOM	931	1HG	ARG	Α	67	159.642	3.691	-6.935	1.00	0.00
ATOM	932	2HG	ARG	A	67	158.673	3.959	-5.484	1.00	0.00
ATOM	933	1HD	ARG	A	67	157.310	5.077	-6.876	1.00	0.00
ATOM	934	2HD	ARG	A	67	158.483	6.380	-6.691	1.00	0.00
ATOM	935	HE	ARG	A	67	159.077	6.091	-8.876	1.00	0.00
ATOM	936	1HH1	ARG	A	67	157.403	3.225	-7.795	1.00	0.00
ATOM	937	2HH1	ARG	A	67	157.361	2.504	-9.370	1.00	0.00
ATOM	938	1HH2	2 ARG	A	67	159.022	5.145	-10.947	1.00	0.00
ATOM	939	2HH2	2 ARG	A	67	158.282	3.594	-11.159	1.00	0.00
ATOM	940	N	GLY	Α	68	162.086	5.279	-2.372	1.00	0.00
ATOM	941	CA	GLY	A	68	162.998	6.111	-1.610	1.00	0.00
ATOM	942	С	GLY	A	68	3 162.279	7.180	-0.808	1.00	0.00
ATOM	943	0	GLY	Α	68	3 162.795	7.658	0.202	1.00	0.00

ATOM	944	H	GLY	A	68	161.558	4.591	-1.917	1.00	0.00
ATOM	945	1HA	GLY	A	68	163.558	5.485	-0.931	1.00	0.00
ATOM	946	2HA	GLY	A	68	163.686	6.590	-2.291	1.00	0.00
ATOM	947	N	THR	A	69	161.086	7.556	-1.260	1.00	0.00
ATOM	948	CA	THR	A	69	160.299	8.575	<u>-</u> 0.576	1.00	0.00
ATOM	949	С	THR	A	69	159.624	8.002	0.666	1.00	0.00
ATOM	950	0	THR	A	69	158.538	7.428	0.585	1.00	0.00
ATOM	951	CB	THR	A	69	159.245	9.152	-1.523	1.00	0.00
ATOM	952	0G1	THR	A	69	159.760	9.271	-2.836	1.00	0.00
ATOM	953	CG2	THR	A	69	158.746	10.518	-1.101	1.00	0.00
ATOM	954	H	THR	A	69	160.728	7.138	-2.070	1.00	0.00
ATOM	955	HA	THR	A	69	160.969	9.365	-0.275	1.00	0.00
ATOM	956	HB	THR	A	69	158.396	8.484	-1.549	1.00	0.00
ATOM	957	HG1	THR	A	69	159.603	8.454	-3.317	1.00	0.00
ATOM	958	1HG2	THR	A ,	69	157.684	10.586	-1.285	1.00	0.00
ATOM	959	2HG2	THR	A	69	159.259	11.280	-1.670	1.00	0.00
ATOM	960	3HG2	THR	A	69	158.939	10.663	-0.048	1.00	0.00
ATOM	961	N	ARG	A	70	160.275	8.161	1.813	1.00	0.00
ATOM	962	CA	ARG	A	70	159.738	7.659	3.073	1.00	0.00
ATOM	963	С	ARG	A	70	158.513	8.463	3.499	1.00	0.00
ATOM	964	0	ARG	A	70	158.554	9.692	3.554	1.00	0.00
ATOM	965	CB	ARG	A	70	160.806	7.716	4.166	1.00	0.00
ATOM	966	CG	ARG	A	70	160.332	7. 181	5.508	1.00	0.00
ATOM	967	CD	ARG	A	70	160.920	7.975	6.663	1.00	0.00
ATOM	968	NE	ARG	A	70	162.233	7.472	7.062	1.00	0.00
ATOM	969	CZ	ARG	A	70	163.084	8.150	7.828	1.00	0.00
ATOM	970	NH1	ARG	A·	70	162.766	9.356	8.281	1.00	0.00
ATOM	971	NH2	ARG	A	70	164.258	7.619	8.143	1.00	0.00
ATOM	972	Н	ARG	A	70	161.137	8.627	1.813	1.00	0.00

ATOM	973	HA	ARG	A	70	159.444	6.631	2.921	1.00	0.00
ATOM	974	1HB	ARG	A	70	161.659	7.134	3.851	1.00	0.00
ATOM	975	2HB	ARG	A	70	161.112	8.743	4.300	1.00	0.00
ATOM	976	1HG	ARG	A	70	159.255	7.245	5.551	1.00	0.00
ATOM	977	2HG	ARG	A	70	160.636	6.149	5.600	1.00	0.00
ATOM	978	1HD	ARG	A	70	161.017	9.007	6.361	1.00	0.00
ATOM	979	2HD	ARG	A	70	160.248	7.909	7.506	1.00	0.00
ATOM	980	HE	ARG	A	70	162.494	6.584	6.741	1.00	0.00
ATOM	981	1НН1	ARG	A	70	161.882	9.762	8.048	1.00	0.00
ATOM	982	2HH1	ARG	A	70	163.409	9.859	8.857	1.00	0.00
ATOM	983	1HH2	ARG	A	70	164.503	6.711	7.805	1.00	0.00
ATOM	984	2HH2	ARG	A	70	164.898	8.127	8.720	1.00	0.00
ATOM	985	N	TYR	A	71	157.426	7.760	3.799	1.00	0.00
ATOM	986	CA	TYR	A	71	156.189	8.408	4.220	1.00	0.00
ATOM	987	С	TYR	A	71	155.841	8.032	5.657	1.00	0.00
ATOM	988	0	TYR	A	71	155.425	8.880	6.447	1.00	0.00
ATOM	989	CB	TYR	A	71	155.042	8.019	3.287	1.00	0.00
ATOM	990	CG	TYR	A	71	155.198	8.551	1.879	1.00	0.00
ATOM	991	CD1	TYR	A	71	155.353	7.686	0.804	1.00	0.00
ATOM	992	CD2	TYR	A	71	155.192	9.917	1.628	1.00	0.00
ATOM	993	CE1	TYR	A	71	155.496	8.168	-0.485	1.00	0.00
ATOM	994	CE2	TYR	A	71	155.334	10.406	0.343	1.00	0.00
ATOM	995	CZ	TYR	A	71	155.486	9.528	-0.709	1.00	0.00
ATOM	996	ОН	TYR	A	71	155.628	10.012	-1.989	1.00	0.00
ATOM	997	H	TYR	A	71	157.456	6.783	3.735	1.00	0.00
ATOM	998	HA	TYR	A	71	156.339	9.476	4.167	1.00	0.00
ATOM	999	1HB	TYR	A	71	154.983	6.943	3.229	1.00	0.00
ATOM	1000	2HB	TYR	A	71	154.116	8.405	3.687	1.00	0.00
ATOM	1001	HD1	TYR	Α	71	155.360	6.621	0.982	1.00	0.00

ATOM 100	2 HD2	TYR A	71 155.073	10.603	2.454 1.00 0.00
ATOM 100	3 HE1	TYR A	71 155.615	7.480	-1.308 1.00 0.00
ATOM 100)4 HE2	TYR A	71 155.326	11.472	0.168 1.00 0.00
ATOM 100)5 HH	TYR A	71 154.788	10.360	-2.295 1.00 0.00
ATOM 100)6 N	PHE A	72 156.013	6.757	5.987 1.00 0.00
ATOM 100	7 CA	PHE A	72 155.716	6.268	7.329 1.00 0.00
ATOM 100	08 C	PHE A	72 156.781	5.282	7.797 1.00 0.00
ATOM 100	09 0	PHE A	72 157.740	5.001	7.079 1.00 0.00
ATOM 10	10 CB	PHE A	72 154.339	5.603	7.358 1.00 0.00
ATOM 10	11 CG	PHE A	72 154.122	4.623	6.241 1.00 0.00
ATOM 101	12 CD1	PHE A	72 154.270	3.261	6.457 1.00 0.00
ATOM 10	13 CD2	PHE A	72 153.771	5.062	4.974 1.00 0.00
ATOM 10	14 CE1	PHE A	72 154.071	2.357	5.431 1.00 0.00
ATOM 10	15 CE2	PHE A	72 153.570	4.163	3.944 1.00 0.00
ATOM 10	16 CZ	PHE A	72 153.720	2.809	4.173 1.00 0.00
ATOM 10	17 H	PHE A	72 156.346	6.129	5.313 1.00 0.00
ATOM 10	18 HA	PHE A	72 155.710	7.117	7.997 1.00 0.00
ATOM 10	19 1HB	PHE A	72 154.223	5.072	8.291 1.00 0.00
ATOM 10	20 2HB	PHE A	72 153.578	6.365	7.285 1.00 0.00
ATOM 10	21 HD1	PHE A	72 154.543	2.908	7.440 1.00 0.00
ATOM 10	22 HD2	PHE A	72 153.653	6.120	4.795 1.00 0.00
ATOM 10	23 HE1	PHE A	72 154.190	1.300	5.612 1.00 0.00
ATOM 10	24 HE2	PHE A	72 153.297	4.519	2.962 1.00 0.00
ATOM 10	25 HZ	PHE A	72 153.564	2.104	3.370 1.00 0.00
ATOM 10	26 N	THR A	73 156.605	4.760	9.007 1.00 0.00
ATOM 10	27 CA	THR A	73 157.551	3.805	9.573 1.00 0.00
ATOM 10	28 C	THR A	73 156.871	2.469	9.856 1.00 0.00
ATOM 10	29 0	THR A	73 156.113	2.338	10.817 1.00 0.00
ATOM 10	30 CB	THR A	73 158.162	4.361	10.860 1.00 0.00

ATOM	1031	0G1	THR	A	73	157. 244	5.211	11.525	1.00	0.00
ATOM	1032	CG2	THR	A	73	159.432	5.152	10.626	1.00	0.00
ATOM	1033	Н	THR	A	73	155.821	5.023	9.533	1.00	0.00
ATOM	1034	HA	THR	A	73	158.337	3.648	8.850	1.00	0.00
ATOM	1035	HB	THR	A	73	158.401	3.539	11.518	1.00	0.00
ATOM	1036	HG1	THR	A	73	156.707	4.692	12.128	1.00	0.00
ATOM	1037	1HG2	THR	A	73	159.457	5.998	11.296	1.00	0.00
ATOM	1038	2HG2	THR	Α	73	159.456	5.500	9.604	1.00	0.00
ATOM	1039	3HG2	THR	A	73	160.288	4.521	10.812	1.00	0.00
ATOM	1040	N	CYS	A	74	157.149	1.479	9.013	1.00	0.00
MOTA	1041	CA	CYS	A	74	156.565	0.153	9.173	1.00	0.00
MOTA	1042	С	CYS	A	74	157.648	-0.922	9.171	1.00	0.00
ATOM	1043	0	CYS	A	74	158.817	-0.639	8.913	1.00	0.00
ATOM	1044	CB	CYS	A	74	155.556	-0.121	8.056	1.00	0.00
ATOM	1045	SG	CYS	A	74	153.872	0.415	8.436	1.00	0.00
ATOM	1046	H	CYS	A	74	157.762	1.645	8.266	1.00	0.00
ATOM	1047	HA	CYS	A	74	156.052	0.128	10.122	1.00	0.00
ATOM	1048	1HB	CYS	A	74	155.87	0.396	7.162	1.00	0.00
ATOM	1049	2HB	CYS	A	74	155.527	-1.183	7.860	1.00	0.00
ATOM	1050	HG	CYS	A	74	153.370	-0.356	8.709	1.00	0.00
ATOM	1051	N	ALA	A	75	157.249	-2.157	9.460	1.00	0.00
ATOM	1052	CA	ALA	A	75	158.185	5 -3.274	9.491	1.00	0.00
ATOM	1053	C	ALA	A	75	158.860	-3.461	8.137	1.00	0.00
ATOM	1054	0	ALA	A	75	158.563	3 -2.747	7.180	1.00	0.00
ATOM	1055	CB	ALA	A	75	157.469	-4.549	9.908	1.00	0.00
ATOM	1056	H	ALA	A	75	156.30	3 -2.320	9.657	1.00	0.00
ATOM	1057	HA	ALA	A	7 5	158.940	-3.054	10.232	1.00	0.00
ATOM	1058	1HB	ALA	A	75	156.42	5 -4.479	9.643	1.00	0.00
ATOM	1059	2HB	ALA	A	75	157.56	2 -4.681	10.976	1.00	0.00

ATOM	1060	ЗНВ	ALA .	A	7 5	157.913	-5.393	9.401	1.00	0.00
ATOM	1061	N	LEU .	A	76	159.770	-4.427	8.064	1.00	0.00
ATOM	1062	CA	LEU .	A	76	160.488	-4.709	6.827	1.00	0.00
MOTA	1063	С	LEU .	A	76	159.705	-5.684	5.953	1.00	0.00
ATOM	1064	0	LEU	A	76	159.141	-6.660	6.447	1.00	0.00
MOTA	1065	CB	LEU	A	76	161.873	-5.281	7.135	1.00	0.00
ATOM	1066	CG	LEU	A	76	162.966	-4.238	7.375	1.00	0.00
ATOM	1067	CD1	LEU	A	76	164.095	-4.830	8.205	1.00	0.00
ATOM	1068	CD2	LEU	A	76	163.495	-3.708	6.051	1.00	0.00
ATOM	1069	Н	LEU	A	76	159.964	-4.963	8.862	1.00	0.00
ATOM	1070	HA	LEU	A	76	160.604	-3.778	6.292	1.00	0.00
ATOM	1071	1HB	LEU	A	76	161.795	-5.901	8.016	1.00	0.00
ATOM	1072	2HB	LEU	A	76	162.176	-5.901	6.305	1.00	0.00
ATOM	1073	HG	LEU	A	76	162.547	-3.408	7.926	1.00	0.00
ATOM	1074	1HD1	LEU	A	76	164.504	-4.068	8.851	1.00	0.00
ATOM	1075	2HD1	LEU	A	76	164.869	-5. 199	7.548	1.00	0.00
ATOM	1076	3HD1	LEU	A	76	163.713	-5.643	8.803	1.00	0.00
ATOM	1077	1HD2	LEU	A	76	163.973	-2.752	6.212	1.00	0.00
ATOM	1078	2HD2	LEU	A	76	162.676	-3.589	5.357	1.00	0.00
ATOM	1079	3HD2	LEU	A	76	164.213	-4.406	5.645	1.00	0.00
ATOM	1080	N	LYS	A	77	159.676	-5.413	4.652	1.00	0.00
ATOM	1081	CA	LYS	A	77	158.962	-6.266	3.709	1.00	0.00
MOTA	1082	С	LYS	A	77	157.473	-6.313	4.036	1.00	0.00
ATOM	1083	0	LYS	A	77	156.840	-7.365	3.949	1.00	0.00
MOTA	1084	CB	LYS	A	77	159.546	-7.681	3.727	1.00	0.00
ATOM	1085	CG	LYS	A	77	161.022	-7.735	3.366	1.00	0.00
ATOM	1086	CD	LYS	A	77	161.222	-7.948	1.874	1.00	0.00
ATOM	1087	CE	LYS	A	77	162.466	-7.232	1.372	1.00	0.00
ATOM	1088	NZ	LYS	A	77	163.176	-8.018	0.325	1.00	0.00

ATOM 1	.089	Н	LYS A	77 160.145	-4.620	4.319 1.00 0.00
ATOM 1	1090	HA	LYS A	77 159.089	-5.848	2.722 1.00 0.00
ATOM]	1091	1HB	LYS A	77 159.425	-8.095	4.717 1.00 0.00
ATOM J	1092	2HB	LYS A	77 159.002	-8.292	3.022 1.00 0.00
ATOM 3	1093	1HG	LYS A	77 161.487	-6.804	3.653 1.00 0.00
ATOM 3	1094	2HG	LYS A	77 161.484	-8.552	3.902 1.00 0.00
ATOM 3	1095	1HD	LYS A	77 161.325	-9.005	1.681 1.00 0.00
ATOM :	1096	2HD	LYS A	77 160.360	-7.566	1.347 1.00 0.00
ATOM :	1097	1HE	LYS A	77 162.174	-6.278	0.956 1.00 0.00
ATOM :	1098	2HE	LYS A	77 163.133	-7.070	2.205 1.00 0.00
ATOM	1099	1HZ	LYS A	77 162.881	-7.702	-0.620 1.00 0.00
ATOM	1100	2HZ	LYS A	77 162.953	-9.029	0.426 1.00 0.00
ATOM	1101	3HZ	LYS A	77 164.204	-7.890	0.418 1.00 0.00
ATOM	1102	N	LYS A	78 156.919	-5.165	4.412 1.00 0.00
ATOM	1103	CA	LYS A	78 155.503	-5.075	4.751 1.00 0.00
ATOM	1104	C	LYS A	78 154.937	-3.711	4.366 1.00 0.00
ATOM	1105	0	LYS A	78 154.084	-3.163	5.064 1.00 0.00
ATOM	1106	CB	LYS A	78 155.299	-5.322	6.246 1.00 0.00
ATOM	1107	CG	LYS A	78 155.835	-6.663	6.719 1.00 0.00
ATOM	1108	CD	LYS A	78 155.588	-6.870	8.205 1.00 0.00
ATOM	1109	CE	LYS A	78 154.371	-7.748	8.450 1.00 0.00
ATOM	1110	NZ	LYS A	78 153.592	-7.299	9.636 1.00 0.00
ATOM	1111	Н	LYS A	78 157.475	-4.359	4.462 1.00 0.00
ATOM	1112	HA	LYS A	78 154.980	-5.838	4.193 1.00 0.00
ATOM	1113	1HB	LYS A	78 155.801	-4.543	6.800 1.00 0.00
ATOM	1114	2HB	LYS A	78 154.242	-5.284	6.464 1.00 0.00
ATOM	1115	1HG	LYS A	78 155.342	-7.451	6.169 1.00 0.00
ATOM	1116	2HG	LYS A	78 156.898	-6.702	6.531 1.00 0.00
ATOM	1117	1HD	LYS A	78 156.454	-7.342	8.641 1.00 0.00

ATOM	1118	2HD	LYS A	78	155.426	-5.908	8.669	1.00	0.00
ATOM	1119	1HE	LYS A	78	153.736	-7.712	7.578	1.00	0.00
ATOM	1120	2HE	LYS A	78	154.703	-8.764	8.611	1.00	0.00
ATOM	1121	1HZ	LYS A	78	154.204	-6.763	10.284	1.00	0.00
ATOM	1122	2HZ	LYS A	78	153.207	-8.121	10.144	1.00	0.00
ATOM	1123	3HZ	LYS A	78	152.803	-6.691	9.336	1.00	0.00
ATOM	1124	N	ALA A	79	155.417	-3.170	3.252	1.00	0.00
ATOM	1125	CA	ALA A	79	154.959	-1.871	2.774	1.00	0.00
ATOM	1126	C	ALA A	79	154.768	-1.878	1.261	1.00	0.00
ATOM	1127	0	ALA A	79	155.729	-1.743	0.504	1.00	0.00
ATOM	1128	CB	ALA A	79	155.942	-0.784	3.179	1.00	0.00
ATOM	1129	Н	ALA A	79	156.096	-3.655	2.738	1.00	0.00
ATOM	1130	HA	ALA A	79	154.010	-1.659	3.246	1.00	0.00
ATOM	1131	1HB	ALA A	79	155.400	0.113	3.442	1.00	0.00
ATOM	1132	2HB	ALA A	79	156.607	-0.573	2.354	1.00	0.00
ATOM	1133	3HB	ALA A	79	156.519	-1.117	4.028	1.00	0.00
ATOM	1134	N	LEU A	80	153.522	-2.038	0.829	1.00	0.00
ATOM	1135	CA	LEU A	80	153.204	-2.063	-0.595	1.00	0.00
ATOM	1136	C	LEU A	80	152.375	-0.846	-0.989	1.00	0.00
ATOM	1137	0	LEU A	80	151.319	-0.587	-0.410	1.00	0.00
ATOM ⁻	1138	CB	LEU A	80	152.448	-3.345	-0.947	1.00	0.00
ATOM	1139	CG	LEU A	80	152.015	-3.461	-2.409	1.00	0.00
ATOM	1140	CD1	LEU A	80	153.127	-4.072	-3.247	1.00	0.00
ATOM	1141	CD2	LEU A	80	150.742	-4.287	-2.524	1.00	0.00
ATOM	1142	H	LEU A	80	152.798	-2.140	1.481	1.00	0.00
ATOM	1143	HA	LEU A	80	154.135	-2.042	-1.143	1.00	0.00
ATOM	1144	1HB	LEU A	80	153.083	-4.188	-0.712	1.00	0.00
ATOM	1145	2HB	LEU A	80	151.565	-3.399	-0.328	1.00	0.00
ATOM	1146	HG	LEU A	80	151.811	-2.473	-2.795	1.00	0.00

ATOM	1147	1HD1	LEU	A	80	153.127	-3.621	-4.229	1.00	0.00
ATOM	1148	2HD1	LEU	A	80	152.964	-5.136	-3.340	1.00	0.00
ATOM	1149	3HD1	LEU	A	80	154.078	-3.894	-2.769	1.00	0.00
ATOM	1150	1HD2	LEU	A	80	150.387	-4.261	-3.543	1.00	0.00
ATOM	1151	2HD2	LEU	A	80	149.988	-3.878	-1.868	1.00	0.00
ATOM	1152	3HD2	LEU	A	80	150.950	-5.308	-2.240	1.00	0.00
ATOM	1153	N	PHE	A	81	152.859	-0.100	-1.976	1.00	0.00
ATOM	1154	CA	PHE	A	81	152.162	1.091	-2.449	1,00	0.00
ATOM	1155	C .	PHE	A	81	151.323	0.776	-3.683	1.00	0.00
ATOM	1156	0	PHE	A	81	151.796	0.136	-4.621	1.00	0.00
ATOM	1157	CB	PHE	A	81	153.164	2.201	-2.768	1.00	0.00
ATOM	1158	CG	PHE	A	81	153.781	2.823	-1.548	1.00	0.00
ATOM	1159	CD1	PHE	A	81	154.882	2.242	-0.940	1.00	0.00
ATOM	1160	CD2	PHE	A	81	153.260	3.988	-1.009	1.00	0.00
ATOM	1161	CE1	PHE	A	81	155.453	2.812	0.182	1.00	0.00
ATOM	1162	CE2	PHE	A	81	153.826	4.563	0.113	1.00	0.00
ATOM	1163	CZ	PHE	A	81	154.924	3.973	0.710	1.00	0.00
ATOM	1164	H	PHE	A	81	153.705	-0.357	-2.399	1.00	0.00
ATOM	1165	HA	PHE	A	81	151.507	1.426	-1.658	1.00	0.00
ATOM	1166	1HB	PHE	A	81	153.961	1.794	-3.372	1.00	0.00
ATOM	1167	2HB	PHE	A	81	152.662	2.981	-3.323	1.00	0.00
ATOM	1168	HD1	PHE	A	81	155.297	1.334	-1.352	1.00	0.00
ATOM	1169	HD2	PHE	A	81	152.401	4.449	-1.475	1.00	0.00
ATOM	1170	HE1	PHE	A	81	156.311	2.349	0.646	1.00	0.00
ATOM	1171	HE2	PHE	A	81	153.410	5.471	0.523	1.00	0.00
ATOM	1172	HZ	PHE	A	81	155.368	4.421	1.586	1.00	0.00
ATOM	1173	N	VAL	, A	82	150.074	1.230	-3.674	1.00	0.00
ATOM	1174	CA	VAL	. A	82	149.168	0.997	-4.793	1.00	0.00
ATOM	1175	С	VAL	. A	82	148.207	2.167	-4.975	1.00	0.00

ATOM	1176	0	VAL A	82	148.090	3.029	-4.105	1.00	0.00
ATOM	1177	CB	VAL A	82	148.354	-0.295	-4.597	1.00	0.00
ATOM	1178	CG1	VAL A	82	149.264	-1.512	-4.631	1.00	0.00
ATOM	1179	CG2	VAL A	82	147.570	-0.241	-3.294	1.00	0.00
ATOM	1180	H	VAL A	82	149.753	1.734	-2.896	1.00	0.00
ATOM	1181	HA	VAL A	82	149.764	0.890	-5.687	1.00	0.00
ATOM	1182	HB	VAL A	82	147.648	-0.379	-5.412	1.00	0.00
ATOM	1183	1HG1	VAL A	82	150.134	-1.294	-5.233	1.00	0.00
ATOM	1184	2HG1	VAL A	82	148.732	-2.349	-5.058	1.00	0.00
ATOM	1185	3HG1	VAL A	82	149.574	-1.758	-3.626	1.00	0.00
ATOM	1186	1HG2	VAL A	82	147.581	-1.214	-2.825	1.00	0.00
ATOM	1187	2HG2	VAL A	82	146.551	0.050	-3.498	1.00	0.00
ATOM	1188	3HG2	VAL A	82	148.025	0.482	-2.631	1.00	0.00
ATOM	1189	N	LYS A	83	147.522	2.190	-6.114	1.00	0.00
ATOM	1190	CA	LYS A	83	146.571	3.255	-6.413	1.00	0.00
ATOM	1191	С	LYS A	83	145.380	3.204	-5.464	1.00	0.00
ATOM	1192	0	LYS A	83	144.707	2.180	-5.348	1.00	0.00
ATOM	1193	СВ	LYS A	83	146.091	3.145	-7.860	1.00	0.00
ATOM	1194	CG	LYS A	83	147.213	3.230	-8.882	1.00	0.00
ATOM	1195	CD	LYS A	83	146.736	2.827	-10.268	1.00	0.00
ATOM	1196	CE	LYS A	83	147.304	3.741	-11.341	1.00	0.00
ATOM	1197	NZ	LYS A	83	147.522	3.022	-12.627	1.00	0.00
ATOM	1198	H	LYS A	83	147.660	1.475	-6.769	1.00	0.00
ATOM	1199	HA	LYS A	83	147.079	4.199	-6.281	1.00	0.00
ATOM	1200	1HB	LYS A	83	145.586	2.200	-7.989	1.00	0.00
ATOM	1201	2HB	LYS A	83	145.393	3.945	-8.058	1.00	0.00
ATOM	1202	1HG	LYS A	83	147.577	4.246	-8.918	1.00	0.00
ATOM	1203	2HG	LYS A	83	148.012	2.569	-8.579	1.00	0.00
ATOM	1204	1HD	LYS A	83	147.055	1.814	-10.467	1.00	0.00

ATOM :	1205	2HD	LYS A	83 145.658	2.878 -	-10.297 1.00 0.00	
ATOM	1206	1HE	LYS A	83 146.613	4.554 -	-11.507 1.00 0.00	
ATOM	1207	2HE	LYS A	83 148.247	4.137 -	-10.995 1.00 0.00	
ATOM	1208	1HZ	LYS A	83 148.420	2.497 -	-12.595 1.00 0.00	
ATOM	1209	2HZ	LYS A	83 147.557	3.699 -	-13.414 1.00 0.00	
ATOM	1210	3HZ	LYS A	83 146.746	2.349	-12.796 1.00 0.00	
ATOM	1211	N	LEU A	84 145.125	4.318	-4.788 1.00 0.00	
ATOM	1212	CA	LEU A	84 144.015	4.410	-3.849 1.00 0.00	ı
ATOM	1213	С	LEU A	84 142.685	4.149	-4.549 1.00 0.00	1
ATOM	1214	0	LEU A	84 141.743	3.636	-3.944 1.00 0.00)
ATOM	1215	CB	LEU A	84 143.997	5.791	-3.189 1.00 0.00)
ATOM	1216	CG	LEU A	84 142.811	6.051	-2.258 1.00 0.00)
ATOM	1217	CD1	LEU A	84 142.917	5.194	-1.006 1.00 0.00)
ATOM	1218	CD2	LEU A	84 142.737	7.526	-1.891 1.00 0.00)
ATOM	1219	H	LEU A	84 145.698	5.101	-4.926 1.00 0.00)
ATOM	1220	HA	LEU A	84 144.162	3.659	-3.087 1.00 0.00)
ATOM	1221	1HB	LEU A	84 144.908	5.907	-2.620 1.00 0.00)
ATOM	1222	2HB	LEU A	84 143.984	6.537	-3.969 1.00 0.00)
ATOM	1223	HG	LEU A	84 141.896	5.786	-2.767 1.00 0.00)
ATOM	1224	1HD1	LEU A	84 143.435	5.745	-0.236 1.00 0.00)
ATOM	1225	2HD1	LEU A	84 143.465	4.291	-1.234 1.00 0.00)
ATOM	1226	3HD1	LEU A	84 141.927	4.936	-0.662 1.00 0.00	0
ATOM	1227	1HD2	LEU A	84 141.795	7.729	-1.404 1.00 0.00	0
ATOM	1228	2HD2	LEU A	84 142.815	8.124	-2.787 1.00 0.00	0
ATOM	1229	3HD2	LEU A	84 143.549	7.772	-1.222 1.00 0.00	0
ATOM	1230	N	LYS A	85 142.616	4.505	-5.827 1.00 0.00	0
ATOM	1231	CA	LYS A	85 141.401	4.310	-6.611 1.00 0.0	0
ATOM	1232	C	LYS A	85 141.072	2.826	-6.754 1.00 0.0	0
ATOM	1233	0	LYS A	85 139.912	2.453	-6.932 1.00 0.0	0

ATOM	1234	CB	LYS A	85 141.555	4.944	-7.994	1.00	0.00
ATOM	1235	CG	LYS A	85 142.656	4.315	-8.833	1.00	0.00
ATOM	1236	CD	LYS A	85 143.327	5.341	-9.732	1.00	0.00
ATOM	1237	CE	LYS A	85 142.637	5.432	-11.083	1.00	0.00
ATOM	1238	NZ	LYS A	85 141.191	5.755	-10.950	1.00	0.00
ATOM	1239	H	LYS A	85 143.400	4.910	-6.254	1.00	0.00
ATOM	1240	HA	LYS A	85 140.590	4.797	-6.091	1.00	0.00
ATOM	1241	1HB	LYS A	85 140.622	4.844	-8.529	1.00	0.00
ATOM	1242	2HB	LYS A	85 141.779	5.994	-7.874	1.00	0.00
ATOM	1243	1HG	LYS A	85 143.397	3.888	-8.175	1.00	0.00
ATOM	1244	2HG	LYS A	85 142.226	3.537	-9.447	1.00	0.00
ATOM	1245	1HD	LYS A	85 143.284	6.308	-9.252	1.00	0.00
ATOM	1246	2HD	LYS A	85 144.358	5.055	-9.881	1.00	0.00
ATOM	1247	1HE	LYS A	85 143.117	6.205	-11.666	1.00	0.00
ATOM	1248	2HE	LYS A	85 142.741	4.484	-11.590	1.00	0.00
ATOM	1249	1HZ	LYS A	85 140.781	5.957	-11.884	1.00	0.00
ATOM	1250	2HZ	LYS A	85 141.065	6.590	-10.342	1.00	0.00
ATOM	1251	3HZ	LYS A	85 140.683	4.953	-10.526	1.00	0.00
ATOM	1252	N	SER A	86 142.098	1.984	-6.674	1.00	0.00
ATOM	1253	CA	SER A	86 141.913	0.542	-6.794	1.00	0.00
ATOM	1254	C	SER A	86 141.835	-0.115	-5.420	1.00	0.00
ATOM	1255	0	SER A	86 142.239	-1.265	-5.247	1.00	0.00
ATOM	1256	CB	SER A	86 143.057	-0.073	-7.602	1.00	0.00
ATOM	1257	OG	SER A	86 143.348	0.704	-8.751	1.00	0.00
ATOM	1258	H	SER A	86 143.000	2.340	-6.531	1.00	0.00
ATOM	1259	HA	SER A	86 140.984	0.370	-7.316	1.00	0.00
ATOM	1260	1HB	SER A	86 143.942	-0.126	-6.986	1.00	0.00
ATOM	1261	2HB	SER A	86 142.778	-1.068	-7.916	1.00	0.00
ATOM	1262	HG	SER A	86 144.296	0.706	-8.905	1.00	0.00

ATOM	1263	N	CYS A	87 141.311	0.621	-4.445 1.00 0.00
ATOM	1264	CA	CYS A	87 141.180	0.107	-3.086 1.00 0.00
ATOM	1265	С	CYS A	87 139.712	0.006	-2.683 1.00 0.00
ATOM	1266	0	CYS A	87 138.868	0.749	-3.182 1.00 0.00
ATOM	1267	СВ	CYS A	87 141.929	1.008	-2.104 1.00 0.00
MOTA	1268	SG	CYS A	87 143.720	1.039	-2.349 1.00 0.00
ATOM	1269	Н	CYS A	87 141.005	1.530	-4.642 1.00 0.00
ATOM	1270	HA	CYS A	87 141.616	-0.880	-3.061 1.00 0.00
ATOM	1271	1HB	CYS A	87 141.568	2.020	-2.207 1.00 0.00
ATOM	1272	2HB	CYS A	87 141.741	0.665	-1.096 1.00 0.00
ATOM	1273	HG	CYS A	87 144.138	0.829	-1.511 1.00 0.00
ATOM	1274	N	ARG A	88 139.416	-0.921	-1.777 1.00 0.00
ATOM	1275	CA	ARG A	88 138.050	-1.121	-1.307 1.00 0.00
ATOM	1276	С	ARG A	88 138.005	-1.203	0.219 1.00 0.00
ATOM	1277	0	ARG A	88 138.924	-1.729	0.846 1.00 0.00
ATOM	1278	CB	ARG A	88 137.458	-2.394	-1.918 1.00 0.00
ATOM	1279	CG	ARG A	88 136.431	-2.125	-3.009 1.00 0.00
ATOM	1280	CD	ARG A	88 135.076	-2.726	-2.667 1.00 0.00
ATOM	1281	NE	ARG A	88 134.097	-1.701	-2.312 1.00 0.00
ATOM	1282	CZ	ARG A	88 133.646	-0.781	-3.162 1.00 0.00
ATOM	1283	NH1	ARG A	88 134.084	-0.752	-4.414 1.00 0.00
ATOM	1284	NH2	ARG A	88 132.754	0.114	-2.758 1.00 0.00
ATOM	1285	H	ARG A	88 140.132	-1.484	-1.416 1.00 0.00
ATOM	1286	HA	ARG A	88 137.463	-0.273	-1.627 1.00 0.00
ATOM	1287	1HB	ARG A	88 138.260	-2.978	-2.346 1.00 0.00
ATOM	1288	2HB	ARG A	88 136.983	-2.969	-1.138 1.00 0.00
ATOM	1289	1HG	ARG A	88 136.320	-1.057	-3.128 1.00 0.00
ATOM	1290	2HG	ARG A	88 136.784	-2.557	-3.934 1.00 0.00
ATOM	1291	1HD	ARG A	88 134.714	-3.274	-3.524 1.00 0.00

ATOM	1292	2HD	ARG	A	88	135. 195	-3.401	-1.832 1.00 0.00	
ATOM	1293	HE	ARG	A	88	133.756	-1.699	-1.393 1.00 0.00	
ATOM	1294	1HH1	ARG	A	88	134.757	-1.424	-4.726 1.00 0.00	
ATOM	1295	2HH1	ARG	A	88	133.742	-0.058	-5.047 1.00 0.00	
ATOM	1296	1HH2	ARG	A	88	132.420	0.097	-1.815 1.00 0.00	
ATOM	1297	2HH2	ARG	A	88	132.416	0.806	-3.395 1.00 0.00	
ATOM	1298	N	PRO	A	89	136.930	-0.683	0.838 1.00 0.00	
ATOM	1299	CA	PRO	A	89	136.774	-0.703	2.296 1.00 0.00	
ATOM	1300	С	PRO	A	89	136.931	-2.105	2.875 1.00 0.00	
ATOM	1301	0	PRO	A	89	136.144	-3.003	2.574 1.00 0.00	
ATOM	1302	CB	PRO	A	89	135.347	-0.195	2.512 1.00 0.00	
ATOM	1303	CG	PRO	A	89	135.044	0.615	1.300 1.00 0.00	
ATOM	1304	CD	PRO	A	89	135.786	-0.038	0.168 1.00 0.00	
ATOM	1305	HA	PRO	A	89	137.475	-0.037	2.777 1.00 0.00	
ATOM	1306	1HB	PRO	A	89	134.675	-1.035	2.605 1.00 0.00	
ATOM	1307	2HB	PRO	A	89	135.308	0.406	3.408 1.00 0.00	
ATOM	1308	1HG	PRO	A	89	133.981	0.605	1.108 1.00 0.00	
ATOM	1309	2HG	PRO	A	89	135.391	1.628	1.439 1.00 0.00	
ATOM	1310	1HD	PRO	Α	89	135.160	-0.772	-0.319 1.00 0.00	
ATOM	1311	2HD	PRO	A	89	136.122	0.703	-0.541 1.00 0.00	
ATOM	1312	N	ASP	A	90	137.951	-2.286	3.707 1.00 0.00	
ATOM	1313	CA	ASF	A	90	138.210	-3.579	4.329 1.00 0.00	
ATOM	1314	С	ASF	A	90	137.750	-3.586	5.783 1.00 0.00	
ATOM	1315	0	ASF	A	90	138.340	-2.918	6.633 1.00 0.00	
ATOM	1316	CB	ASF	A	90	139.699	-3.915	4.251 1.00 0.00	
ATOM	1317	CG	ASF	A	90	139.952	-5.409	4.179 1.00 0.00	
ATOM	1318	OD1	ASI	A	90	140.458	-5.974	5.171 1.00 0.00	
ATOM	1319	OD2	ASI	A	90	139.643	-6.013	3.131 1.00 0.00	
ATOM	1320	Н	ASI	P A	90	138.543	-1.532	3.909 1.00 0.00	

1321	НА	ASP A	90 137.652	-4.326	3.784 1.00 0.00
1322	1HB	ASP A	90 140.121	-3.455	3.370 1.00 0.00
1323	2HB	ASP A	90 140.195	-3.527	5.128 1.00 0.00
1324	N	SER A	91 136.697	-4.345	6.063 1.00 0.00
1325	CA	SER A	91 136.163	-4.439	7.417 1.00 0.00
1326	C	SER A	91 136.405	-5.826	8.004 1.00 0.00
1327	0	SER A	91 135.654	-6.286	8.864 1.00 0.00
1328	CB	SER A	91 134.664	-4.130	7.419 1.00 0.00
1329	OG .	SER A	91 134.264	-3.549	8.648 1.00 0.00
1330	Н	SER A	91 136.270	-4.856	5.344 1.00 0.00
1331	HA	SER A	91 136.672	-3.708	8.027 1.00 0.00
1332	1HB	SER A	91 134.440	-3.440	6.619 1.00 0.00
1333	2НВ	SER A	91 134.111	-5.046	7.272 1.00 0.00
1334	HG	SER A	91 134.508	-2.620	8.658 1.00 0.00
1335	N	ARG A	92 137.459	-6.487	7.536 1.00 0.00
1336	CA	ARG A	92 137.799	-7.821	8.017 1.00 0.00
1337	С	ARG A	92 138.193	-7.782	9.490 1.00 0.00
1338	0	ARG A	92 137.991	-8.751	10.223 1.00 0.00
1339	CB	ARG A	92 138.940	-8.410	7.187 1.00 0.00
1340	CG	ARG A	92 138.468	-9.193	5.972 1.00 0.00
1341	CD	ARG A	92 138.300	-8.294	4.757 1.00 0.00
1342	NE	ARG A	92 136.945	-8.354	4.214 1.00 0.00
1343	CZ	ARG A	92 136.620	-7.964	2.984 1.00 0.00
1344	NH1	ARG A	92 137.549	-7.484	2.165 1.00 0.00
1345	NH2	ARG A	92 135.364	-8.053	2.569 1.00 0.00
1346	Н	ARG A	92 138.021	-6.068	6.851 1.00 0.00
1347	HA	ARG A	92 136.925	-8.445	7.907 1.00 0.00
1348	1HB	ARG A	92 139.575	-7.605	6.845 1.00 0.00
1349	2HB	ARG A	92 139.520	-9.073	7.812 1.00 0.00
	1324 1325 1326 1327 1328 1329 1330 1331 1332 1333 1334 1335 1336 1337 1338 1339 1340 1341 1342 1343 1344 1345 1346 1347 1348	1322 1HB 1323 2HB 1324 N 1325 CA 1326 C 1327 0 1328 CB 1329 OG 1330 H 1331 HA 1332 1HB 1333 2HB 1334 HG 1335 N 1336 CA 1337 C 1338 0 1339 CB 1340 CG 1341 CD 1342 NE 1342 NE 1343 CZ 1344 NH1 1345 NH2 1346 H 1347 HA 1348 1HB	1322 1HB ASP A 1323 2HB ASP A 1324 N SER A 1325 CA SER A 1326 C SER A 1327 O SER A 1328 CB SER A 1330 H SER A 1331 HA SER A 1332 1HB SER A 1333 2HB SER A 1334 HG SER A 1335 N ARG A 1336 CA ARG A 1337 C ARG A 1338 O ARG A 1339 CB ARG A 1341 CD ARG A 1342 NE ARG A 1343 CZ ARG A 1345 NH1 ARG A 1346 H ARG A 1347 HA ARG A 1348 1HB ARG A	1322 1HB ASP A 90 140. 121 1323 2HB ASP A 90 140. 195 1324 N SER A 91 136. 697 1325 CA SER A 91 136. 163 1326 C SER A 91 136. 405 1327 O SER A 91 135. 654 1328 CB SER A 91 134. 664 1329 OG SER A 91 134. 264 1330 H SER A 91 136. 672 1331 HA SER A 91 136. 672 1332 1HB SER A 91 134. 440 1333 2HB SER A 91 134. 440 1333 1HB SER A 91 134. 508 1335 N ARG A 92 137. 459 1336 CA ARG A 92 138. 940 1339 CB ARG A 92	1322 1HB ASP A 90 140.121 -3.455 1323 2HB ASP A 90 140.195 -3.527 1324 N SER A 91 136.697 -4.345 1325 CA SER A 91 136.163 -4.439 1326 C SER A 91 136.405 -5.826 1327 O SER A 91 135.654 -6.286 1328 CB SER A 91 134.664 -4.130 1329 OG SER A 91 134.264 -3.549 1330 H SER A 91 136.270 -4.856 1331 HA SER A 91 136.672 -3.708 1332 1HB SER A 91 134.440 -3.440 1333 2HB SER A 91 134.508 -2.620 1334 HG SER A 91 134.508 -2.620 1335 N ARG A 92 137.459 -6.487 1336 CA ARG A 92 137.799 -7.821 <

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		1350	1HG	ARG			139. 195				
ΑΊ	MO	1351	2HG	ARG	A	92	137.518	-9.654	6.201		
ΓA	MO	1352	1HD	ARG	A	92	138.517	-7.276	5.043	1.00	0.00
ΓA	MO	1353	2HD	ARG	A	92	138.997	-8.609	3.994	1.00	0.00
ΑΊ	MO	1354	HE	ARG	A	92	136.240	-8.704	4.798	1.00	0.00
ΑΊ	MOT	1355	1HH1	ARG	A	92	138.499	-7.414	2.472	1.00	0.00
ΑΊ	MO	1356	2HH1	ARG	A	92	137.299	-7.193	1.242	1.00	0.00
ΑT	MOT	1357	1HH2	ARG	A	92	134.660	-8.414	3.182	1.00	0.00
A7	MOT	1358	2HH2	ARG	A	92	135.120	-7.759	1.646	1.00	0.00
ΑΊ	MOT	1359	N	PHE	A	93	138.757	-6.657	9.917	1.00	0.00
A'	MOT	1360	CA	PHE	A	93	139.180	-6.492	11.304	1.00	0.00
A'	MOT	1361	C	PHE	Ą	93	138.401	-5.369	11.982	1.00	0.00
A'	TOM	1362	0	PHE	A	93	138.910	-4.705	12.885	1.00	0.00
A'	TOM	1363	СВ	PHE	A	93	140.679	-6.198	11.369	1.00	0.00
A'	TOM	1364	CG	PHE	A	93	141.523	-7.226	10.669	1.00	0.00
A'	TOM	1365	CD1	PHE	A	93	142.351	-8.069	11.393	1.00	0.00
A'	TOM	1366	CD2	PHE	A	93	141.487	-7.347	9.290	1.00	0.00
A'	TOM	1367	CE1	PHE	A	93	143.128	-9.015	10.752	1.00	0.00
A'	TOM	1368	CE2	PHE	A	93	142.262	-8.291	8.643	1.00	0.00
A'	TOM	1369	CZ	PHE	A	93	143.084	-9.127	9.375	1.00	0.00
A'	TOM	1370	Н	PHE	A	93	138.892	-5.919	9.286	1.00	0.00
A	TOM	1371	HA	PHE	Α	93	138.980	-7.417	11.823	1.00	0.00
A	TOM	1372	1HB	PHE	Α	93	140.872	-5.241	10.908	1.00	0.00
A	TOM	1373	2HB	PHE	Α	93	140.986	-6.162	12.404	1.00	0.00
A	TOM	1374	HD1	PHE	Α	93	142.386	-7.983	12.469	1.00	0.00
A	TOM	1375	HD2	PHE	A	93	140.845	-6.695	8.717	1.00	0.00
· A	TOM	1376	HE1	PHE	A	93	143.770	-9.667	11.326	1.00	0.00
A	TOM	1377	HE2	PHE	. A	93	142.225	-8.376	7.567	1.00	0.00
A	TOM	1378	HZ	PHE	A	93	143.690	-9.865	8.873	3 1.00	0.00

ATO	M .	1379	N	ALA A	94	137.162	-5.162	11.543	1.00	0.00
ATO)M	1380	CA	ALA A	94	136.315	-4.119	12.109	1.00	0.00
ATO)M	1381	С	ALA A	94	136.137	-4.315	13.612	1.00	0.00
ATC)M	1382	0	ALA A	94	135.661	-5.358	14.061	1.00	0.00
ATC)M	1383	CB	ALA A	94	134.964	-4.101	11.410	1.00	0.00
ATC)M	1384	Н	ALA A	94	136.811	-5.723	10.819	1.00	0.00
ATC)M	1385	HA	ALA A	94	136.796	-3.168	11.936	1.00	0.00
ATC)M	1386	1HB	ALA A	A 94	134.900	-3.232	10.773	1.00	0.00
ATC	M	1387	2HB	ALA A	A 94	134.175	-4.065	12.147	1.00	0.00
ATO	M	1388	3HB	ALA A	A 94	134.856	-4.994	10.812	1.00	0.00
ATO)M	1389	N	SER A	A 95	136.521	-3.304	14.385	1.00	0.00
ATO	OM	1390	CA	SER A	A 95	136.403	-3.364	15.837	1.00	0.00
ATO	OM	1391	C	SER A	A 95	134.940	-3.417	16.263	1.00	0.00
ATO	OM	1392	0	SER A	A 95	134.056	-2.942	15.549	1.00	0.00
ATO	OM	1393	CB	SER A	A 95	137.088	-2.155	16.476	1.00	0.00
AT(MC	1394	OG	SER A	A 95	138.479	-2.154	16.204	1.00	0.00
ATO	MC	1395	Н	SER A	A 95	136.892	-2.498	13.968	1.00	0.00
AT(MC	1396	HA	SER A	A 95	136.895	-4.265	16.172	1.00	0.00
ATO	MC	1397	1HB	SER A	A 95	136.657	-1.249	16.081	1.00	0.00
ATO	MC	1398	2HB	SER A	A 95	136.943	-2.187	17.546	1.00	0.00
ATO	MC	1399	HG	SER A	A 95	138.947	-2.573	16.930	1.00	0.00
ATO	MC	1400	N	LEU A	A 96	134.689	-3.999	17.432	1.00	0.00
AT(MC	1401	CA	LEU A	A 96	133.333	-4.114	17.954	1.00	0.00
ATO	OM	1402	С	LEU A	A 96	132.453	-4.926	17.010	1.00	0.00
ATO	OM	1403	0	LEU .	A 96	131.929	-4.402	16.027	1.00	0.00
ATO	OM	1404	CB	LEU .	A 96	132.727	-2.726	18.167	1.00	0.00
ATO	OM	1405	CG	LEU .	A 96	131.527	-2.680	19.115	1.00	0.00
ATO	OM	1406	CD1	LEU .	A 96	131.490	-1.359	19.866	1.00	0.00
AT	OM	1407	CD2	LEU .	A 96	130.232	-2.895	18.344	1.00	0.00

ATOM :	1408	Н	LEU A	96	135.436	-4.359	17.956	1.00	0.00
ATOM :	1409	HA	LEU A	96	133.386	-4.624	18.904	1.00	0.00
ATOM	1410	1HB	LEU A	96	133.496	-2.077	18.561	1.00	0.00
ATOM	1411	2HB	LEU A	96	132.413	-2.342	17.208	1.00	0.00
ATOM	1412	HG	LEU A	96	131.621	-3.475	19.840	1.00	0.00
ATOM	1413	1HD1	LEU A	96	131.103	-0.587	19.218	1.00	0.00
ATOM	1414	2HD1	LEU A	96	132.487	-1.097	20.183	1.00	0.00
ATOM	1415	3HD1	LEU A	96	130.851	-1.456	20.732	1.00	0.00
ATOM	1416	1HD2	LEU A	96	130.444	-3.422	17.426	1.00	0.00
ATOM	1417	2HD2	LEU A	96	129.787	-1.938	18.116	1.00	0.00
ATOM	1418	3HD2	LEU A	96	129.548	-3.477	18.945	1.00	0.00
ATOM	1419	N	GLN A	97	132.295	-6.211	17.314	1.00	0.00
ATOM	1420	CA	GLN A	97	131.478	-7.096	16.492	1.00	0.00
ATOM	1421	C	GLN A	. 97	130.853	-8.204	17.339	1.00	0.00
ATOM	1422	0	GLN A	. 97	131.005	-9.388	17.040	1.00	0.00
ATOM	1423	CB	GLN A	97	132.321	-7.708	15.371	1.00	0.00
ATOM	1424	CG	GLN A	97	131.511	-8.109	14.149	1.00	0.00
ATOM	1425	CD	GLN A	97	7 132.049	-9.356	13.476	1.00	0.00
ATOM	1426	0E1	GLN A	97	7 132.386	-10.337	14.138	1.00	0.00
ATOM	1427	NE2	GLN A	97	7 132.134	-9.323	12. 151	1.00	0.00
ATOM	1428	H	GLN A	97	7 132.738	-6.571	18.110	1.00	0.00
ATOM	1429	HA	GLN A	97	7 130.687	-6.506	16.055	1.00	0.00
ATOM	1430	1HB	GLN A	97	7 133.065	-6.987	15.061	1.00	0.00
ATOM	1431	2HB	GLN A	A 97	7 132.821	-8.588	15.750	1.00	0.00
ATOM	1432	1HG	GLN A	4 97	7 130.492	-8.296	14.455	1.00	0.00
ATOM	1433	2HG	GLN A	A 9'	7 131.530	-7.296	13.438	1.00	0.00
ATOM	1434	1HE2	GLN A	A 9'	7 131.847	-8.508	11.689	1.00	0.00
ATOM	1435	2HE2	GLN A	A 9'	7 132.478	-10.116	11.690	1.00	0.00
ATOM	1436	N	PRO .	A 9	8 130.137	-7.830	18.413	1.00	0.00

ATOM 1437	CA	PRO A	98 129.487	-8.797	19.305 1.00 0.00
ATOM 1438	С	PRO A	98 128.279	-9.461	18.655 1.00 0.00
ATOM 1439	0	PRO A	98 128.061	-9.336	17.449 1.00 0.00
ATOM 1440	CB	PRO A	98 129.050	-7.941	20.495 1.00 0.00
ATOM 1441	CG	PRO A	98 128.876	-6.573	19.933 1.00 0.00
ATOM 1442	CD	PRO A	98 129.904	-6.437	18.843 1.00 0.00
ATOM 1443	HA	PRO A	98 130.179	-9.556	19.637 1.00 0.00
ATOM 1444	1HB	PRO A	98 128.126	-8.326	20.898 1.00 0.00
ATOM 1445	2HB	PRO A	98 129.817	-7.960	21.256 1.00 0.00
ATOM 1446	1HG	PRO A	98 127.881	-6.469	19.526 1.00 0.00
ATOM 1447	2HG	PRO A	98 129.046	-5.836	20.703 1.00 0.00
ATOM 1448	1HD	PRO A	98 129.515	-5.843	18.029 1.00 0.00
ATOM 1449	2HD	PRO A	98 130.810	-5.998	19.233 1.00 0.00
ATOM 1450	N	SER A	99 127.494	-10.169	19.462 1.00 0.00
ATOM 1451	CA	SER A	99 126.306	-10.854	18.966 1.00 0.00
ATOM 1452	С	SER A	99 125.385	-11.247	20.115 1.00 0.00
ATOM 1453	0	SER A	99 125.840	-11.743	21.146 1.00 0.00
ATOM 1454	CB	SER A	99 126.704	-12.096	18.168 1.00 0.00
ATOM 1455	OG	SER A	99 127.637	-11.774	17.150 1.00 0.00
ATOM 1456	Н	SER A	99 127.719	-10.231	20.413 1.00 0.00
ATOM 1457	HA	SER A	99 125.778	-10.172	18.315 1.00 0.00
ATOM 1458	1HB	SER A	99 127.153	-12.820	18.832 1.00 0.00
ATOM 1459	2HB	SER A	99 125.824	-12.526	17.710 1.00 0.00
ATOM 1460	HG	SER A	99 128.438	-12.286	17.275 1.00 0.00
ATOM 1461	N	GLY A	100 124.088	-11.024	19.932 1.00 0.00
ATOM 1462	CA	GLY A	100 123.124	-11.361	20.963 1.00 0.00
ATOM 1463	С	GLY A	100 121.706	-11.447	20.429 1.00 0.00
ATOM 1464	0	GLY A	100 120.983	-10.451	20.420 1.00 0.00
ATOM 1465	H	GLY A	100 123.782	-10.626	19.090 1.00 0.00

ATOM 1466	1HA	GLY A 100	123.394 -12.314	21.393 1.00 0.00
ATOM 1467	2HA	GLY A 100	123.161 -10.607	21.736 1.00 0.00
ATOM 1468	N	PRO A 101	121.277 -12.635	19.970 1.00 0.00
ATOM 1469	CA	PRO A 101	119.927 -12.833	19.431 1.00 0.00
ATOM 1470	С	PRO A 101	118.856 -12.759	20.514 1.00 0.00
ATOM 1471	0	PRO A 101	117.797 -12.164	20.313 1.00 0.00
ATOM 1472	CB .	PRO A 101	119.986 -14.239	18.833 1.00 0.00
ATOM 1473	CG	PRO A 101	121.058 -14.933	19.599 1.00 0.00
ATOM 1474	CD	PRO A 101	122.072 -13.877	19.941 1.00 0.00
ATOM 1475	HA	PRO A 101	119.703 -12.117	18.655 1.00 0.00
ATOM 1476	1HB	PRO A 101	. 119.030 -14.727	18.958 1.00 0.00
ATOM 1477	2HB	PRO A 101	120.230 -14.177	17.782 1.00 0.00
ATOM 1478	1HG	PRO A 101	120.646 -15.363	20.501 1.00 0.00
ATOM 1479	2HG	PRO A 101	1 121.508 -15.702	18.989 1.00 0.00
ATOM 1480	1HD	PRO A 101	1 122.513 -14.076	20.907 1.00 0.00
ATOM 1481	2HD	PRO A 103	1 122.836 -13.827	19.179 1.00 0.00
ATOM 1482	N	SER A 102	2 119.138 –13.367	21.661 1.00 0.00
ATOM 1483	CA CA	SER A 102	2 118.198 -13.369	22.776 1.00 0.00
ATOM 1484	. C	SER A 102	2 116.891 -14.051	22.386 1.00 0.00
ATOM 1485	5 0	SER A 102	2 116.548 -14.126	21.206 1.00 0.00
ATOM 1486	S CB	SER A 10	2 117.922 -11.938	23.242 1.00 0.00
ATOM 1487	7 OG	SER A 10	2 118.809 -11.557	24.277 1.00 0.00
ATOM 1488	3 H	SER A 10	2 119.999 -13.824	21.760 1.00 0.00
ATOM 1489	HA 6	SER A 10	2 118.650 -13.921	23.588 1.00 0.00
ATOM 1490) 1HB	SER A 10	2 118.047 -11.261	22.410 1.00 0.00
ATOM 149	1 2HB	SER A 10	2 116.908 -11.872	23.609 1.00 0.00
ATOM 1492	2 HG	SER A 10	2 119.210 -10.712	24.061 1.00 0.00
ATOM 1493	3 N	SER A 10	3 116.168 -14.548	23.383 1.00 0.00
ATOM 1494	4 CA	SER A 10	3 114.898 -15.225	23.144 1.00 0.00

MOTA	1495	C	SER A	103	113.728	-14.368	23.617	1.00	0.00
ATOM	1496	0	SER A	103	113.660	-13.981	24.784	1.00	0.00
ATOM	1497	CB	SER A	103	114.875	-16.578	23.856	1.00	0.00
ATOM	1498	OG	SER A	103	115.624	-16.535	25.059	1.00	0.00
ATOM	1499	H	SER A	103	116.495	-14.458	24.303	1.00	0.00
ATOM	1500	HA	SER A	103	114.804	-15.386	22.081	1.00	0.00
ATOM	1501	1HB	SER A	103	113.855	-16.840	24.093	1.00	0.00
ATOM	1502	2HB	SER A	103	115.299	-17.330	23.208	1.00	0.00
ATOM	1503	HG .	SER A	. 103	116.371	-17.133	24.992	1.00	0.00
ATOM	1504	N	GLY A	104	112.809	-14.076	22.702	1.00	0.00
ATOM	1505	CA	GLY A	104	111.653	-13.267	23.046	1.00	0.00
ATOM	1506	С	GLY A	104	112.037	-11.875	23.512	1.00	0.00
ATOM	1507	0	GLY A	104	111.578	-11.468	24.600	1.00	0.00
ATOM	1508	OXT	GLY A	104	112.796	-11. 196	22.791	1.00	0.00
ATOM	1509	Н	GLY A	104	112.915	-14.411	21.788	1.00	0.00
ATOM	1510	1HA	GLY A	104	111.018	-13. 179	22.176	1.00	0.00
ATOM	1511	2HA	GLY A	104	111.103	-13.760	23.833	1.00	0.00
TER	1512		GLY A	104					
ENDM	DL								

[0102]

立体構造座標表5

ATOM 1	N	GLY A	1 119.934	2.440 -12.362 1.00 0.00
ATOM 2	CA	GLY A	1 120.718	2.882 -11.176 1.00 0.00
ATOM 3	С	GLY A	1 121.589	4.087 -11.473 1.00 0.00
ATOM 4	0	GLY A	1 122.802	4.050 -11.266 1.00 0.00
ATOM 5	1H	GLY A	1 120.404	1.634 -12.822 1.00 0.00
ATOM 6	2H	GLY A	1 119.854	3.217 -13.049 1.00 0.00
ATOM 7	ЗН	GLY A	1 118,978	2.151 -12.071 1.00 0.00

ATOM 8	1HA	GLY A	1 120.034	3.135 -10.380 1.00 0.00
ATOM 9	2HA	GLY A	1 121.348	2.067 -10.851 1.00 0.00
ATOM 10	N	SER A	2 120.970	5.157 -11.960 1.00 0.00
ATOM 11	CA	SER A	2 121.698	6.378 -12.287 1.00 0.00
ATOM 12	C	SER A	2 122.748	6.115 -13.362 1.00 0.00
ATOM 13	0	SER A	2 123.937	6.005 -13.067 1.00 0.00
ATOM 14	CB	SER A	2 122.364	6.950 -11.035 1.00 0.00
ATOM 15	OG	SER A	2 121.480	7.806 -10.331 1.00 0.00
ATOM 16	Н	SER A	2 120.001	5.125 -12.104 1.00 0.00
ATOM 17	HA	SER A	2 120.985	7.096 -12.665 1.00 0.00
ATOM 18	1HB	SER A	2 122.654	6.140 -10.382 1.00 0.00
ATOM 19	2HB	SER A	2 123.239	7.514 -11.321 1.00 0.00
ATOM 20	HG	SER A	2 121.576	7.661 -9.387 1.00 0.00
ATOM 21	N	SER A	3 122.299	6.016 -14.609 1.00 0.00
ATOM 22	CA	SER A	3 123.200	5.765 -15.728 1.00 0.00
ATOM 23	С	SER A	3 123.931	4.438 -15.551 1.00 0.00
ATOM 24	0	SER A	3 123.690	3.708 -14.590 1.00 0.00
ATOM 25	CB	SER A	3 124.211	6.905 -15.859 1.00 0.00
ATOM 26	OG	SER A	3 123.566	8.124 -16.188 1.00 0.00
ATOM 27	Н	SER A	3 121.339	6.112 -14.781 1.00 0.00
ATOM 28	HA	SER A	3 122.605	5.717 -16.628 1.00 0.00
ATOM 29	1HB	SER A	3 124.734	7.030 -14.923 1.00 0.00
ATOM 30	2HB	SER A	3 124.919	6.666 -16.639 1.00 0.00
ATOM 31	HG	SER A	3 122.788	8.233 -15.637 1.00 0.00
ATOM 32	N	GLY A	4 124.827	4.134 -16.485 1.00 0.00
ATOM 33	CA	GLY A	4 125.580	2.896 -16.413 1.00 0.00
ATOM 34	С	GLY A	4 126.815	3.017 -15.541 1.00 0.00
ATOM 35	0	GLY A	4 127.021	4.037 -14.883 1.00 0.00
ATOM 36	Н	GLY A	4 124.978	4.755 -17.227 1.00 0.00

ATOM 37	1HA	GLY A	4 124.942	2.122 -16.011 1.00 0.00
ATOM 38	2HA	GLY A	4 125.883	2.614 -17.411 1.00 0.00
ATOM 39	N	SER A	5 127.638	1.973 -15.537 1.00 0.00
ATOM 40	CA	SER A	5 128.859	1.967 -14.740 1.00 0.00
ATOM 41	С	SER A	5 128.541	2.115 -13.255 1.00 0.00
ATOM 42	0	SER A	5 127.375	2.182 -12.864 1.00 0.00
ATOM 43	CB	SER A	5 129.792	3.093 -15.188 1.00 0.00
ATOM 44	0G	SER A	5 130.310	2.842 -16.482 1.00 0.00
ATOM 45	Н	SER A	5 127.419	1.190 -16.083 1.00 0.00
ATOM 46	HA	SER A	5 129.352	1.019 -14.897 1.00 0.00
ATOM 47	1HB	SER A	5 129.245	4.025 -15.208 1.00 0.00
ATOM 48	2HB	SER A	5 130.615	3.174 -14.493 1.00 0.00
ATOM 49	HG	SER A	5 130.634	1.939 -16.528 1.00 0.00
ATOM 50	N	SER A	6 129.584	2.166 -12.434 1.00 0.00
ATOM 51	CA	SER A	6 129.415	2.307 -10.992 1.00 0.00
ATOM 52	C	SER A	6 128.918	3.704 -10.637 1.00 0.00
ATOM 53	0	SER A	6 128.643	4.519 -11.517 1.00 0.00
ATOM 54	CB	SER A	6 130.735	2.024 -10.273 1.00 0.00
ATOM 55	OG	SER A	6 130.834	0.658 -9.907 1.00 0.00
ATOM 56	H	SER A	6 130.488	2.108 -12.805 1.00 0.00
ATOM 57	HA	SER A	6 128.680	1.584 -10.673 1.00 0.00
ATOM 58	1HB	SER A	6 131.558	2.268 -10.928 1.00 0.00
ATOM 59	2HB	SER A	6 130.794	2.629 -9.380 1.00 0.00
ATOM 60	HG	SER A	6 131.760	0.409 -9.847 1.00 0.00
ATOM 61	N	GLY A	7 128.805	3.974 -9.340 1.00 0.00
ATOM 62	CA	GLY A	7 128.341	5.274 -8.891 1.00 0.00
ATOM 63	С	GLY A	7 129.005	5.713 -7.601 1.00 0.00
ATOM 64	0	GLY A	7 129.918	5.051 -7.108 1.00 0.00
ATOM 65	H	GLY A	7 129.039	3.285 -8.683 1.00 0.00

ATOM 66	1HA	GLY A	7 128.552	6.003	-9.658 1.00 0.00
ATOM 67	2HA	GLY A	7 127.273	5.228	-8.736 1.00 0.00
ATOM 68	N	LEU A	8 128.544	6.833	-7.053 1.00 0.00
ATOM 69	CA	LEU A	8 129.099	7.360	-5.811 1.00 0.00
ATOM 70	С	LEU A	8 127.992	7.667	-4.808 1.00 0.00
ATOM 71	0	LEU A	8 126.829	7.822	-5.180 1.00 0.00
ATOM 72	CB	LEU A	8 129.916	8.624	-6.089 1.00 0.00
ATOM 73	CG	LEU A	8 131.353	8.378	-6.550 1.00 0.00
ATOM 74	CD1	LEU A	8 131.955	9.650	-7.124 1.00 0.00
ATOM 75	CD2	LEU A	8 132.199	7.859	-5.397 1.00 0.00
ATOM 76	H	LEU A	8 127.814	7.315	-7.493 1.00 0.00
ATOM 77	HA	LEU A	8 129.750	6.607	-5.392 1.00 0.00
ATOM 78	1HB	LEU A	8 129.407	9.194	-6.854 1.00 0.00
ATOM 79	2HB	LEU A	8 129.947	9.213	-5.186 1.00 0.00
ATOM 80	HG	LEU A	8 131.352	7.628	-7.328 1.00 0.00
ATOM 81	1HD	1 LEU A	8 131.820	10.461	-6.423 1.00 0.00
ATOM 82	2HD	1 LEU A	8 131.462	9.894	-8.054 1.00 0.00
ATOM 83	3HD	1 LEU A	8 133.010	9.501	-7.304 1.00 0.00
ATOM 84	1HD	2 LEU A	8 132.928	7.157	-5.772 1.00 0.00
ATOM 85	2HD	2 LEU A	8 131.562	7.367	-4.676 1.00 0.00
ATOM 86	3HD	2 LEU A	8 132.706	8.686	-4.922 1.00 0.00
ATOM 87	N	ALA A	9 128.361	7.754	-3.534 1.00 0.00
ATOM 88	CA	ALA A	9 127.398	8.042	-2.478 1.00 0.00
ATOM 89	C	ALA A	9 128.053	8.796	-1.326 1.00 0.00
ATOM 90	0	ALA A	9 127.633	8.677	-0.176 1.00 0.00
ATOM 91	CB	ALA A	9 126.766	6.754	-1.975 1.00 0.00
ATOM 92	H	ALA A	9 129.303	7.619	-3.299 1.00 0.00
ATOM 93	HA	ALA A	9 126.617	8.658	-2.899 1.00 0.00
ATOM 94	1HF	B ALA A	9 127.284	6.421	-1.087 1.00 0.00

ATOM S	95	2HB	ALA A	9 126.	839 5.994	-2.740	1.00	0.00
ATOM S	96	ЗНВ	ALA A	9 125.	726 6.929	-1.742	1.00	0.00
ATOM S	97	N	MET A	10 129.	085 9.573	3 -1.643	1.00 (0.00
ATOM S	98	CA	MET A	10 129.	796 10.34	7 -0.633	1.00 (0.00
ATOM S	99	С	MET A	10 130	. 666 11. 422	2 -1.282	1.00 (0.00
ATOM	100	0	MET A	10 131	.871 11.24	1 -1.449	1.00 (0.00
ATOM	101	СВ	MET A	10 130	. 664 9. 42	7 0.230	1.00 (0.00
ATOM	102	CG	MET A	10 130	.012 9.03	8 1.548	1.00 (0.00
ATOM	103	SD	MET A	10 130	.760 9.86	4 2.965	1.00 (0.00
ATOM	104	CE	MET A	10 132	.424 9.20	8 2.903	1.00 (0.00
ATOM	105	H	MET A	10 129	. 373 9. 62	8 -2.578	1.00	0.00
ATOM	106	HA	MET A	10 129	.061 10.82	7 -0.005	1.00	0.00
ATOM	107	1HB	MET A	10 130	.870 8.52	5 -0.325	1.00	0.00
ATOM	108	2HB	MET A	10 131	.596 9.92	8 0.446	1.00	0.00
ATOM	109	1HG	MET A	10 128	.966 9.30	1 1.508	1.00	0.00
ATOM	110	2HG	MET A	10 130	.109 7.97	0 1.680	1.00	0.00
ATOM	111	1HE	MET A	10 132	.732 9.10	3 1.872	1.00	0.00
ATOM	112	2HE	MET A	10 132	.449 8.24	2 3.384	1.00	0.00
MOTA	113	3HE	MET A	10 133	.098 9.88	3.412	1.00	0.00
ATOM	114	N	PRO A	11 130	.060 12.56	3 -1.655	1.00	0.00
ATOM	115	CA	PRO A	11 130	.787 13.66	8 -2.285	1.00	0.00
ATOM	116	С	PRO A	11 131	.997 14.11	0 -1.464	1.00	0.00
ATOM	117	0	PRO A	11 133	.081 14.31	7 -2.011	1.00	0.00
ATOM	118	CB	PRO A	11 129	.751 14.79	3 -2.359	1.00	0.00
ATOM	119	CG	PRO A	11 128	3.428 14.11	.0 -2.301	1.00	0.00
ATOM	120	CD	PRO A	11 128	3.627 12.86	1.489	1.00	0.00
ATOM	121	HA	PRO A	11 131	.110 13.40	9 -3.282	1.00	0.00
ATOM	122	1HB	PRO A	11 129). 886 15. 46	55 -1.524	1.00	0.00
ATOM	123	2HB	PRO A	11 129	0.873 15.33	85 –3.2 85	1.00	0.00

ATOM :	124	1HG	PRO A	11 127.708	14.752	-1.821 1.00 0.00
ATOM	125	2HG	PRO A	11 128.101	13.859	-3.300 1.00 0.00
ATOM	126	1HD	PRO A	11 128.392	13.045	-0.451 1.00 0.00
ATOM	127	2HD	PRO A	11 128.020	12.057	-1.877 1.00 0.00
ATOM	128	N	PRO A	12 131.836	14.258	-0.134 1.00 0.00
ATOM	129	CA	PRO A	12 132.932	14.672	0.747 1.00 0.00
ATOM	130	C	PRO A	12 134.071	13.659	0.754 1.00 0.00
ATOM	131	0	PRO A	12 135.204	13.984	1.107 1.00 0.00
ATOM	132	CB	PRO A	12 132.283	14.754	2.136 1.00 0.00
ATOM	133	CG	PRO A	12 130.815	14.809	1.879 1.00 0.00
ATOM	134	CD	PRO A	12 130.591	14.030	0.616 1.00 0.00
ATOM	135	HA	PRO A	12 133.318	15.642	0.469 1.00 0.00
ATOM	136	1HB	PRO A	12 132.549	13.879	2.711 1.00 0.00
ATOM	137	2HB	PRO A	12 132.626	15.641	2.644 1.00 0.00
ATOM	138	1HG	PRO A	12 130.281	14.354	2.700 1.00 0.00
ATOM	139	2HG	PRO A	12 130.502	15.834	1.748 1.00 0.00
ATOM	140	1HD	PRO A	12 130.458	12.981	0.837 1.00 0.00
ATOM	141	2HD	PRO A	12 129.738	14.416	0.081 1.00 0.00
ATOM	142	N	GLY A	13 133.759	12.427	0.361 1.00 0.00
ATOM	143	CA	GLY A	13 134.766	11.384	0.327 1.00 0.00
ATOM	144	C	GLY A	13 135.229	11.068	-1.082 1.00 0.00
ATOM	145	0	GLY A	13 134.684	11.593	-2.053 1.00 0.00
ATOM	146	H	GLY A	13 132.837	12.226	0.090 1.00 0.00
ATOM	147	1HA	GLY A	13 135.617	11.700	0.911 1.00 0.00
ATOM	148	2HA	GLY A	13 134.355	10.487	0.768 1.00 0.00
ATOM	149	N	ASN A	14 136.236	10.209	-1.194 1.00 0.00
ATOM	150	CA	ASN A	14 136.770	9.824	-2.495 1.00 0.00
ATOM	151	С	ASN A	14 135.847	8.829	-3.190 1.00 0.00
ATOM	152	0	ASN A	14 135.407	9.058	-4.316 1.00 0.00

ATOM 1	53	СВ	ASN A	14	138.167	9.219	-2.337	1.00	0.00
ATOM 1	.54	CG	ASN A	14	139.066	10.061	-1.454	1.00	0.00
ATOM 1	.55	OD1	ASN A	14	139.732	10.984	-1.925	1.00	0.00
ATOM 1	.56	ND2	ASN A	14	139.090	9.749	-0.164	1.00	0.00
ATOM 1	157	H	ASN A	. 14	136.629	9.823	-0.383	1.00	0.00
ATOM 1	158	HA	ASN A	. 14	136.841	10.715	-3.100	1.00	0.00
ATOM I	159	1HB	ASN A	. 14	138.079	8.237	-1.896	1.00	0.00
ATOM 1	160	2HB	ASN A	. 14	138.627	9.133	-3.310	1.00	0.00
ATOM 1	161	1HD2	ASN A	14	138.535	9.002	0.142	1.00	0.00
ATOM 3	162	2HD2	ASN A	14	139.663	10.277	0.430	1.00	0.00
ATOM :	163	N	SER A	15	135.560	7.722	-2.512	1.00	0.00
ATOM 3	164	CA	SER A	15	134.689	6.693	-3.065	1.00	0.00
ATOM :	165	С	SER A	A 15	133.686	6.210	-2.022	1.00	0.00
ATOM	166	0	SER A	A 15	132.492	6.099	-2.300	1.00	0.00
ATOM	167	CB	SER A	A 15	135.520	5.512	-3.574	1.00	0.00
ATOM	168	0G	SER A	A 15	134.733	4.638	-4.365	1.00	0.00
ATOM	169	H	SER A	A 15	135.942	7.596	-1.618	1.00	0.00
ATOM	170	HA	SER A	A 15	34.149	7.125	-3.893	1.00	0.00
ATOM	171	1HB	SER A	A 15	3 136.337	5.884	-4.175	1.00	0.00
ATOM	172	2HB	SER A	A 15	135.913	3 4.962	-2.732	1.00	0.00
ATOM	173	HG	SER .	A 15	5 133.932	2 4.410	-3.889	1.00	0.00
ATOM	174	N	HIS .	A 16	3 134.17	5.924	-0.822	1.00	0.00
ATOM	175	CA	HIS .	A 16	5 133.32	5 5.452	0.263	1.00	0.00
ATOM	176	С	HIS	A 16	5 133.92	5 5.807	1.620	1.00	0.00
ATOM	177	0	HIS	A 10	6 133.23	3 6.314	2.502	1.00	0.00
ATOM	178	СВ	HIS	A 10	6 133.12	3.940	0.160	1.00	0.00
ATOM	179	CG	HIS	A 10	6 131.73	4 3.497	0.497	1.00	0.00
ATOM	180	ND1	HIS	A 1	6 131.29	3 3.324	1.793	1.00	0.00
ATOM	181	CD2	HIS	A 1	6 130.68	3 3.192	-0.300	1.00	0.00

ATOM 182	CE1	HIS A	16 130.032	2.931	1.777 1.00 0.00
ATOM 183	NE2	HIS A	16 129.638	2.843	0.520 1.00 0.00
ATOM 184	H	HIS A	16 135.140	6.032	-0.662 1.00 0.00
ATOM 185	HA	HIS A	16 132.367	5.942	0.166 1.00 0.00
ATOM 186	1HB	HIS A	16 133.337	3.623	-0.849 1.00 0.00
ATOM 187	2HB	HIS A	16 133.806	3.445	0.838 1.00 0.00
ATOM 188	HD1	HIS A	16 131.825	3.467	2.603 1.00 0.00
ATOM 189	HD2	HIS A	16 130.670	3.217	-1.381 1.00 0.00
ATOM 190	HE1	HIS A	16 129.425	2.718	2.646 1.00 0.00
ATOM 191	HE2	HIS A	16 128.774	2.491	0.222 1.00 0.00
ATOM 192	N	GLY A	17 135.217	5.537	1.779 1.00 0.00
ATOM 193	CA	GLY A	17 135.887	5.834	3.032 1.00 0.00
ATOM 194	C	GLY A	17 137.270	5.217	3.109 1.00 0.00
ATOM 195	0	GLY A	17 137.577	4.481	4.045 1.00 0.00
ATOM 196	Н	GLY A	17 135.718	5.132	1.041 1.00 0.00
ATOM 197	1HA	GLY A	17 135.976	6.905	3.134 1.00 0.00
ATOM 198	2HA	GLY A	17 135.289	5.453	3.846 1.00 0.00
ATOM 199	N	LEU A	18 138.106	5.519	2.121 1.00 0.00
ATOM 200	CA	LEU A	18 139.464	4.989	2.080 1.00 0.00
ATOM 201	C	LEU A	18 140.482	6.077	2.411 1.00 0.00
ATOM 202	0	LEU A	18 140.788	6.929	1.578 1.00 0.00
ATOM 203	CB	LEU A	18 139.763	4.398	0.701 1.00 0.00
ATOM 204	CG	LEU A	18 139.023	3.098	0.381 1.00 0.00
ATOM 205	CD1	LEU A	18 138.916	2.902	-1.124 1.00 0.00
ATOM 206	CD2	LEU A	18 139.726	1.914	1.027 1.00 0.00
ATOM 207	Н	LEU A	18 137.802	6.112	1.403 1.00 0.00
ATOM 208	HA	LEU A	18 139.537	4.207	2.821 1.00 0.00
ATOM 209	1HE	B LEU A	18 139.500	5.133	-0.046 1.00 0.00
ATOM 210	2HE	B LEU A	18 140.824	4.207	0.636 1.00 0.00

ATOM 211	HG	LEU A	18 138.021	3.154	0.781 1.00 0.00
ATOM 212	1HD1	LEU A	18 138.964	1.848	-1.354 1.00 0.00
ATOM 213	2HD1	LEU A	18 139.732	3.415	-1.612 1.00 0.00
ATOM 214	3HD1	LEU A	18 137.978	3.305	-1.473 1.00 0.00
ATOM 215	1HD2	LEU A	18 139.773	2.062	2.095 1.00 0.00
ATOM 216	2HD2	LEU A	18 140.726	1.828	0.630 1.00 0.00
ATOM 217	3HD2	LEU A	18 139.175	1.009	0.813 1.00 0.00
ATOM 218	N	GLU A	19 141.003	6.039	3.633 1.00 0.00
ATOM 219	CA	GLU A	19 141.987	7.021	4.076 1.00 0.00
ATOM 220	C	GLU A	19 143.003	6.385	5.019 1.00 0.00
ATOM 221	0	GLU A	19 142.915	5.198	5.333 1.00 0.00
ATOM 222	CB	GLU A	19 141.291	8.193	4.771 1.00 0.00
ATOM 223	CG	GLU A	19 140.354	7.767	5.889 1.00 0.00
ATOM 224	CD	GLU A	19 139.186	8.717	6.064 1.00 0.00
ATOM 225	0E1	GLU A	19 138.168	8.543	5.361 1.00 0.00
ATOM 226	OE2	GLU A	19 139.287	9.634	6.905 1.00 0.00
ATOM 227	Н	GLU A	19 140.719	5.335	4.253 1.00 0.00
ATOM 228	HA	GLU A	19 142.504	7.388	3.202 1.00 0.00
ATOM 229	1HB	GLU A	19 142.043	8.845	5.190 1.00 0.00
ATOM 230	2HB	GLU A	19 140.717	8.741	4.040 1.00 0.00
ATOM 231	1HG	GLU A	19 139.968	6.784	5.664 1.00 0.00
ATOM 232	2HG	GLU A	19 140.911	7.730	6.814 1.00 0.00
ATOM 233	N	VAL A	20 143.968	7. 183	5.466 1.00 0.00
ATOM 234	CA	VAL A	20 145.001	6.699	6.374 1.00 0.00
ATOM 235	С	VAL A	20 144.390	6.120	7.646 1.00 0.00
ATOM 236	0	VAL A	20 143.480	6.706	8.230 1.00 0.00
ATOM 237	CB	VAL A	20 145.985	7.822	6.754 1.00 0.00
ATOM 238	CG1	VAL A	20 147.147	7.267	7.563 1.00 0.00
ATOM 239	CG2	VAL A	20 146.487	8.537	5.508 1.00 0.00

ATOM 240	Н	VAL A	20 143.984	8.120	5.180 1.00 0.00
ATOM 241	HA	VAL A	20 145.554	5.922	5.865 1.00 0.00
ATOM 242	HB	VAL A	20 145.460	8.540	7.368 1.00 0.00
ATOM 243	1HG1	VAL A	20 147.999	7.923	7.468 1.00 0.00
ATOM 244	2HG1	VAL A	20 147.406	6.286	7.194 1.00 0.00
ATOM 245	3HG1	VAL A	20 146.861	7.195	8.602 1.00 0.00
ATOM 246	1HG2	VAL A	20 146.440	7.864	4.665 1.00 0.00
ATOM 247	2HG2	VAL A	20 147.508	8.853	5.661 1.00 0.00
ATOM 248	3HG2	VAL A	20 145.868	9.401	5.315 1.00 0.00
ATOM 249	N	GLY A	21 144.897	4.967	8.068 1.00 0.00
ATOM 250	CA	GLY A	21 144.389	4.329	9.267 1.00 0.00
ATOM 251	С	GLY A	21 143.329	3.289	8.967 1.00 0.00
ATOM 252	0	GLY A	21 143.299	2.225	9.586 1.00 0.00
ATOM 253	H	GLY A	21 145.624	4.546	7.561 1.00 0.00
ATOM 254	1HA	GLY A	21 145.208	3.852	9.784 1.00 0.00
ATOM 255	2HA	GLY A	21 143.963	5.084	9.912 1.00 0.00
ATOM 256	N	SER A	22 142.455	3.595	8.013 1.00 0.00
ATOM 257	CA	SER A	22 141.387	2.679	7.631 1.00 0.00
ATOM 258	С	SER A	22 141.933	1.524	6.796 1.00 0.00
ATOM 259	0	SER A	22 142.942	1.668	6.106 1.00 0.00
ATOM 260	CB	SER A	22 140.304	3.423	6.847 1.00 0.00
ATOM 261	OG	SER A	22 140.042	4.693	7.418 1.00 0.00
ATOM 262	Н	SER A	22 142.530	4.459	7.555 1.00 0.00
ATOM 263	HA	SER A	22 140.953	2.280	8.535 1.00 0.00
ATOM 264	1HB	SER A	22 140.632	3.561	5.828 1.00 0.00
ATOM 265	2HB	SER A	22 139.393	2.842	6.856 1.00 0.00
ATOM 266	HG	SER A	22 139.251	5.065	7.021 1.00 0.00
ATOM 267	N	LEU A	23 141.259	0.381	6.865 1.00 0.00
ATOM 268	CA	LEU A	23 141.677	-0.798	6.116 1.00 0.00

ATOM 269	С	LEU A	23 141.131	-0.761	4.693 1.00 0.00
ATOM 270	0	LEU A	23 140.073	-0.186	4.438 1.00 0.00
ATOM 271	CB	LEU A	23 141.206	-2.070	6.824 1.00 0.00
ATOM 272	CG	LEU A	23 141.688	-2.224	8.267 1.00 0.00
ATOM 273	CD1	LEU A	23 140.698	-3.049	9.075 1.00 0.00
ATOM 274	CD2	LEU A	23 143.069	-2.862	8.302 1.00 0.00
ATOM 275	Н	LEU A	23 140.463	0.329	7.434 1.00 0.00
ATOM 276	HA	LEU A	23 142.756	-0.799	6.074 1.00 0.00
ATOM 277	1HB	LEU A	23 140.126	-2.077	6.823 1.00 0.00
ATOM 278	2HB	LEU A	23 141.555	-2.921	6.259 1.00 0.00
ATOM 279	HG	LEU A	23 141.758	-1.248	8.722 1.00 0.00
ATOM 280	1HD1	LEU A	23 140.860	-4.098	8.880 1.00 0.00
ATOM 281	2HD1	LEU A	23 139.691	-2.781	8.791 1.00 0.00
ATOM 282	3HD1	LEU A	23 140.840	-2.852	10.127 1.00 0.00
ATOM 283	1HD2	LEU A	23 143.649	-2.423	9.100 1.00 0.00
ATOM 284	2HD2	2 LEU A	23 143.568	-2.691	7.359 1.00 0.00
ATOM 285	3HD2	2 LEU A	23 142.970	-3.924	8.469 1.00 0.00
ATOM 286	N	ALA A	24 141.859	-1.379	3.768 1.00 0.00
ATOM 287	CA	ALA A	24 141.447	-1.417	2.370 1.00 0.00
ATOM 288	С	ALA A	24 141.974	-2.668	1.676 1.00 0.00
ATOM 289	0	ALA A	24 142.870	-3.341	2.186 1.00 0.00
ATOM 290	CB	ALA A	A 24 141.925	5 -0.168	1.646 1.00 0.00
ATOM 291	H	ALA A	A 24 142.693	3 -1.820	4.032 1.00 0.00
ATOM 292	HA	ALA A	A 24 140.36	7 -1.430	2.341 1.00 0.00
ATOM 293	1HE	ALA A	A 24 141.38	3 -0.061	0.718 1.00 0.00
ATOM 294	2HE	3 ALA A	A 24 142.98	1 -0.255	1.439 1.00 0.00
ATOM 295	3HI	3 ALA A	A 24 141.74	9 0.698	2.267 1.00 0.00
ATOM 296	N	GLU A	A 25 141.41	3 -2.975	0.511 1.00 0.00
ATOM 297	CA	GLU A	A 25 141.82	7 -4.145	-0.252 1.00 0.00

ATOM	298	С	GLU A	25	142.061	-3.785	-1.716	1.00	0.00
ATOM	299	0	GLU A	25	141.346	-2.961	-2.285	1.00	0.00
ATOM	300	CB	GLU A	25	140.773	-5.248	-0.147	1.00	0.00
ATOM	301	CG	GLU A	25	141.270	-6.611	-0.600	1.00	0.00
ATOM	302	CD	GLU A	25	140.237	-7.371	-1.407	1.00	0.00
ATOM	303	OE1	GLU A	25	139.590	-8.277	-0.841	1.00	0.00
ATOM	304	0E2	GLU A	25	140.072	-7.060	-2.605	1.00	0.00
ATOM	305	H	GLU A	25	140.703	-2.399	0.156	1.00	0.00
ATOM	306	HA	GLU A	25	142.754	-4.505	0.169	1.00	0.00
ATOM	307	1HB	GLU A	25	140.453	-5.328	0.880	1.00	0.00
ATOM	308	2HB	GLU A	25	139.924	-4.978	-0.760	1.00	0.00
ATOM	309	1HG	GLU A	25	142.151	-6.474	-1.210	1.00	0.00
ATOM	310	2HG	GLU A	25	141.525	-7.194	0.273	1.00	0.00
ATOM	311	N	VAL A	26	143.066	-4.410	-2.321	1.00	0.00
ATOM	312	CA	VAL A	26	143.394	-4.156	-3.718	1.00	0.00
ATOM	313	С	VAL A	26	142.998	-5.336	-4.599	1.00	0.00
ATOM	314	0	VAL A	26	143.026	-6.486	-4.161	1.00	0.00
ATOM	315	CB	VAL A	26	144.898	-3.876	-3.901	1.00	0.00
ATOM	316	CG1	VAL A	26	145.188	-3.419	-5.322	1.00	0.00
ATOM	317	CG2	VAL A	26	145.374	-2.841	-2.892	1.00	0.00
ATOM	318	H	VAL A	26	143.601	-5.057	-1.815	1.00	0.00
ATOM	319	HA	VAL A	26	142.845	-3.282	-4.036	1.00	0.00
ATOM	320	HB	VAL A	26	145.438	-4.794	-3.724	1.00	0.00
ATOM	321	1HG1	VAL A	26	144.303	-2.967	-5.743	1.00	0.00
ATOM	322	2HG1	VAL A	26	145.477	-4.270	-5.921	1.00	0.00
ATOM	323	3HG1	VAL A	26	145.990	-2.697	-5.311	1.00	0.00
ATOM	324	1HG2	VAL A	26	145.426	-3.291	-1.912	1.00	0.00
ATOM	325	2HG2	VAL A	26	144.682	-2.013	-2.872	1.00	0.00
ATOM	326	3HG2	VAL A	26	146.354	-2.485	-3.177	1.00	0.00

ATOM 327	N	LYS A	27 142.631	-5.043	-5.842 1.00 0.00
ATOM 328	CA	LYS A	27 142.230	-6.080	-6.785 1.00 0.00
ATOM 329	C	LYS A	27 143.429	-6.587	-7.579 1.00 0.00
ATOM 330	0	LYS A	27 143.642	-6.187	-8.723 1.00 0.00
ATOM 331	CB	LYS A	27 141.161	-5.544	-7.739 1.00 0.00
ATOM 332	CG	LYS A	27 139.740	-5.743	-7.235 1.00 0.00
ATOM 333	CD	LYS A	27 139.084	-6.954	-7.879 1.00 0.00
ATOM 334	CE	LYS A	27 139.179	-8.181	-6.985 1.00 0.00
ATOM 335	NZ	LYS A	27 139.457	-9.418	-7.765 1.00 0.00
ATOM 336	H	LYS A	27 142.630	-4.106	-6.132 1.00 0.00
ATOM 337	HA	LYS A	27 141.815	-6.900	-6.219 1.00 0.00
ATOM 338	1HB	LYS A	27 141.323	-4.487	-7.886 1.00 0.00
ATOM 339	2HB	LYS A	27 141.257	-6.049	-8.689 1.00 0.00
ATOM 340	1HG	LYS A	27 139.765	-5.886	-6.166 1.00 0.00
ATOM 341	2HG	LYS A	27 139.159	-4.863	-7.470 1.00 0.00
ATOM 342	1HD	LYS A	27 138.044	-6.734	-8.061 1.00 0.00
ATOM 343	2HD	LYS A	27 139.579	-7.164	-8.816 1.00 0.00
ATOM 344	1HE	LYS A	27 139.976	-8.030	-6.272 1.00 0.00
ATOM 345	2HE	LYS A	27 138.244	-8.299	-6.459 1.00 0.00
ATOM 346	1HZ	LYS A	27 138.945	-10.223	-7.353 1.00 0.00
ATOM 347	2HZ	LYS A	27 140.475	-9.627	-7.756 1.00 0.00
ATOM 348	3H2	LYS A	27 139.150	-9.294	-8.752 1.00 0.00
ATOM 349	N	GLU A	28 144.209	-7.469	-6.964 1.00 0.00
ATOM 350	CA	GLU A	28 145.388	8 -8.032	-7.613 1.00 0.00
ATOM 351	С	GLU A	28 145.339	9.556	-7.602 1.00 0.00
ATOM 352	0	GLU A	28 144.374	1 –10.153	-7.126 1.00 0.00
ATOM 353	CB	GLU A	28 146.66	l -7.544	-6.918 1.00 0.00
ATOM 354	CG	GLU A	28 147.726	6 -7.045	-7.879 1.00 0.00
ATOM 355	CD	GLU A	28 148.62	1 -5.987	7 -7.262 1.00 0.00

ATOM 356	OE1	GLU A	28 148.1	23 -4.875	-6.987 J	1.00 0.00
ATOM 357	OE2	GLU A	28 149.8	19 -6.271	-7.052 I	1.00 0.00
ATOM 358	Н	GLU A	28 143.9	87 -7.749	-6.051	1.00 0.00
ATOM 359	HA	GLU A	28 145.3	96 -7.691	-8.638	1.00 0.00
ATOM 360	1HB	GLU A	28 146.4	05 -6.736	-6.249	1.00 0.00
ATOM 361	2HB	GLU A	28 147.0	79 -8.356	-6.341	1.00 0.00
ATOM 362	1HG	GLU A	28 148.3	40 -7.880	-8.183	1.00 0.00
ATOM 363	2HG	GLU A	28 147.2	41 -6.623	-8.748	1.00 0.00
ATOM 364	N	ASN A	29 146.3	88 -10.180	-8.131	1.00 0.00
ATOM 365	CA	ASN A	29 146.4	64 -11.635	-8.182	1.00 0.00
ATOM 366	С	ASN A	29 146.4	73 –12.229	-6.774	1.00 0.00
ATOM 367	0	ASN A	29 145.5	97 -13.017	-6.419	1.00 0.00
ATOM 368	CB	ASN A	29 147.7	17 -12.075	-8.943	1.00 0.00
ATOM 369	CG	ASN A	29 147.4	23 -12.410	-10.393	1.00 0.00
ATOM 370	OD1	ASN A	29 147.6	664 -13.530	-10.844	1.00 0.00
ATOM 371	ND2	ASN A	29 146.9	902 -11.437	-11.130	1.00 0.00
ATOM 372	Н	ASN A	29 147.	126 -9.650	-8.495	1.00 0.00
ATOM 373	HA	ASN A	29 145.	590 –11.995	-8.705	1.00 0.00
ATOM 374	1HB	ASN A	29 148.	444 –11.278	-8.918	1.00 0.00
ATOM 375	2HB	ASN A	29 148.	132 -12.951	-8.467	1.00 0.00
ATOM 376	1HD2	2 ASN A	29 146.	737 -10.570	-10.704	1.00 0.00
ATOM 377	2HD2	2 ASN A	29 146.	701 –11.625	-12.071	1.00 0.00
ATOM 378	N	PRO A	30 147.	468 -11.853	-5.951	1.00 0.00
ATOM 379	CA	PRO A	30 147.	587 -12.350	-4.578	1.00 0.00
ATOM 380	С	PRO A	30 146.	604 -11.669	-3.628	1.00 0.00
ATOM 381	0	PRO A	30 146.	755 -10.489	-3.310	1.00 0.00
ATOM 382	CB	PRO A	30 149.	025 -11.990	-4.206	1.00 0.00
ATOM 383	CG	PRO A	30 149.	325 -10.773	-5.008	1.00 0.00
ATOM 384	CD	PRO A	30 148.	555 -10.915	-6.295	1.00 0.00

ATOM 385	HA	PRO A	30 147.456 -13.420 -	-4.531 1.00 0.00
ATOM 386	1HB	PRO A	30 149.086 -11.793 -	-3.146 1.00 0.00
ATOM 387	2HB	PRO A	30 149.682 -12.806 -	-4.465 1.00 0.00
ATOM 388	1HG	PRO A	30 149.001 -9.892 -	-4.474 1.00 0.00
ATOM 389	2HG	PRO A	30 150.385 -10.720	-5.212 1.00 0.00
ATOM 390	1HD	PRO A	30 148.156 -9.960	-6.602 1.00 0.00
ATOM 391	2HD	PRO A	30 149.186 -11.325	-7.069 1.00 0.00
ATOM 392	N	PRO A	31 145.579 -12.403	-3.156 1.00 0.00
ATOM 393	CA	PRO A	31 144.575 -11.854	-2.239 1.00 0.00
ATOM 394	С	PRO A	31 145.149 -11.573	-0.854 1.00 0.00
ATOM 395	0	PRO A	31 145.083 -12.418	0.038 1.00 0.00
ATOM 396	CB	PRO A	31 143.517 -12.957	-2.165 1.00 0.00
ATOM 397	CG	PRO A	31 144.253 -14.209	-2.491 1.00 0.00
ATOM 398	CD	PRO A	31 145.317 -13.819	-3.478 1.00 0.00
ATOM 399	HA	PRO A	31 144.132 -10.951	-2.633 1.00 0.00
ATOM 400	1HB	PRO A	31 143.097 -12.991	-1.170 1.00 0.00
ATOM 401	2HB	PRO A	31 142.737 -12.761	-2.885 1.00 0.00
ATOM 402	1HG	PRO A	31 144.703 -14.614	-1.596 1.00 0.00
ATOM 403	2HG	PRO A	31 143.580 -14.929	-2.931 1.00 0.00
ATOM 404	1HD	PRO A	31 146.205 -14.418	-3.334 1.00 0.00
ATOM 405	2HD	PRO A	31 144.950 -13.923	-4.488 1.00 0.00
ATOM 406	N	PHE A	32 145.712 -10.382	-0.683 1.00 0.00
ATOM 407	CA	PHE A	32 146.298 -9.990	0.593 1.00 0.00
ATOM 408	C	PHE A	32 145.431 -8.947	1.292 1.00 0.00
ATOM 409	0	PHE A	32 144.494 -8.408	0.703 1.00 0.00
ATOM 410	CB	PHE A	32 147.709 -9.437	0.382 1.00 0.00
ATOM 411	CG	PHE A	32 147.801 -8.437	-0.735 1.00 0.00
ATOM 412	CD1	PHE A	32 148.541 -8.716	-1.873 1.00 0.00
ATOM 413	CD2	PHE A	32 147.149 -7.218	-0.646 1.00 0.00

ATOM 414	CE1	PHE A	32 148.628 -7.799 -2.902 1.00 0.00
ATOM 415	CE2	PHE A	32 147.233 -6.295 -1.672 1.00 0.00
ATOM 416	CZ	PHE A	32 147.973 -6.586 -2.801 1.00 0.00
ATOM 417	Н	PHE A	32 145.734 -9.751 -1.433 1.00 0.00
ATOM 418	HA	PHE A	32 146.355 -10.870 1.216 1.00 0.00
ATOM 419	1HB	PHE A	32 148.038 -8.952 1.289 1.00 0.00
ATOM 420	2HB	PHE A	32 148.377 -10.254 0.155 1.00 0.00
ATOM 421	HD1	PHE A	32 149.052 -9.664 -1.952 1.00 0.00
ATOM 422	HD2	PHE A	32 146.571 -6.989 0.237 1.00 0.00
ATOM 423	HE1	PHE A	32 149.208 -8.027 -3.784 1.00 0.00
ATOM 424	HE2	PHE A	32 146.719 -5.348 -1.590 1.00 0.00
ATOM 425	HZ	PHE A	32 148.039 -5.867 -3.604 1.00 0.00
ATOM 426	N	TYR A	33 145.750 -8.668 2.552 1.00 0.00
ATOM 427	CA	TYŖ A	33 145.000 -7.690 3.332 1.00 0.00
ATOM 428	С	TYR A	33 145.940 -6.694 4.004 1.00 0.00
ATOM 429	0	TYR A	33 146.852 -7.081 4.734 1.00 0.00
ATOM 430	CB	TYR A	33 144.147 -8.395 4.388 1.00 0.00
ATOM 431	CG	TYR A	33 142.780 -8.803 3.888 1.00 0.00
ATOM 432	CD1	TYR A	33 141.996 -7.922 3.154 1.00 0.00
ATOM 433	CD2	TYR A	33 142.273 -10.070 4.151 1.00 0.00
ATOM 434	CE1	TYR A	33 140.746 -8.291 2.696 1.00 0.00
ATOM 435	CE2	TYR A	33 141.023 -10.447 3.696 1.00 0.00
ATOM 436	CZ	TYR A	33 140.264 -9.554 2.970 1.00 0.00
ATOM 437	ОН	TYR A	33 139.019 -9.926 2.514 1.00 0.00
ATOM 438	Н	TYR A	33 146.508 -9.131 2.967 1.00 0.00
ATOM 439	HA	TYR A	A 33 144.351 -7.155 2.655 1.00 0.00
ATOM 440	1H)	B TYR A	A 33 144.659 -9.288 4.717 1.00 0.00
ATOM 441	2H	B TYR A	A 33 144.010 -7.734 5.230 1.00 0.00
ATOM 442	HD	1 TYR A	A 33 142.376 -6.934 2.941 1.00 0.00

ATOM 443	HD2	TYR A	33 1/2 869 _	10 766	4.721 1.00 0.00
ATOM 444	HE1	TYR A			2.126 1.00 0.00
ATOM 445	HE2	TYR A	33 140.646 -	-11.436	3.910 1.00 0.00
ATOM 446	HH	TYR A	33 139.088 -	-10.756	2.037 1.00 0.00
ATOM 447	N	GLY A	34 145.710	-5.410	3.751 1.00 0.00
ATOM 448	CA	GLY A	34 146.544	-4.378	4.337 1.00 0.00
ATOM 449	C	GLY A	34 145.757	-3.138	4.711 1.00 0.00
ATOM 450	0	GLY A	34 144.578	-3.019	4.378 1.00 0.00
ATOM 451	H	GLY A	34 144.969	-5.161	3.160 1.00 0.00
ATOM 452	1HA	GLY A	34 147.016	-4.774	5.225 1.00 0.00
ATOM 453	2HA	GLY A	34 147.312	-4.103	3.628 1.00 0.00
ATOM 454	N	VAL A	35 146.409	-2.212	5.406 1.00 0.00
ATOM 455	CA	VAL A	35 145.764	-0.974	5.827 1.00 0.00
ATOM 456	C	VAL A	35 146.453	0.240	5.212 1.00 0.00
ATOM 457	0	VAL A	35 147.668	0.241	5.013 1.00 0.00
ATOM 458	CB	VAL A	35 145.763	-0.835	7.362 1.00 0.00
ATOM 459	CG1	VAL A	35 147.187	-0.811	7.901 1.00 0.00
ATOM 460	CG2	VAL A	35 145.001	0.411	7.788 1.00 0.00
ATOM 461	H	VAL A	35 147.348	-2.365	5.642 1.00 0.00
ATOM 462	HA	VAL A	35 144.738	-1.002	5.489 1.00 0.00
ATOM 463	HB	VAL A	35 145.262	-1.697	7.781 1.00 0.00
ATOM 464	1HG	1 VAL A	35 147.865	-0.519	7.113 1.00 0.00
ATOM 465	2HG	1 VAL A	35 147.453	-1.795	8.258 1.00 0.00
ATOM 466	3HG	1 VAL A	35 147.252	-0.103	8.714 1.00 0.00
ATOM 467	1HG	2 VAL A	35 145.141	0.574	8.847 1.00 0.00
ATOM 468	2HG	2 VAL A	35 143.950	0.278	7.581 1.00 0.00
ATOM 469	3HG	2 VAL A	35 145.372	1.265	7.241 1.00 0.00
ATOM 470	N	ILE A	36 145.670	1.271	4.913 1.00 0.00
ATOM 471	CA	ILE A	36 146.207	2.491	4.322 1.00 0.00

ATOM 472	С	ILE A	36 147.127	3.214	5.300 1.00 0.00
ATOM 473	0	ILE A	36 146.803	3.363	6.478 1.00 0.00
ATOM 474	CB	ILE A	36 145.080	3.449	3.888 1.00 0.00
ATOM 475	CG1	ILE A	36 144.064	2.715	3.011 1.00 0.00
ATOM 476	CG2	ILE A	36 145.658	4.648	3.147 1.00 0.00
ATOM 477	CD1	ILE A	36 142.904	3.583	2.573 1.00 0.00
ATOM 478	H	ILE A	36 144.709	1.210	5.097 1.00 0.00
ATOM 479	HA	ILE A	36 146.775	2.215	3.445 1.00 0.00
ATOM 480	HB	ILE A	36 144.584	3.811	4.775 1.00 0.00
ATOM 481	1HG1	ILE A	36 144.560	2.354	2.122 1.00 0.00
ATOM 482	2HG1	ILE A	36 143.663	1.876	3.560 1.00 0.00
ATOM 483	1HG2	E ILE A	36 146.620	4.385	2.734 1.00 0.00
ATOM 484	2HG2	E ILE A	36 145.776	5.472	3.835 1.00 0.00
ATOM 485	3HG2	2 ILE A	36 144.989	4.936	2.351 1.00 0.00
ATOM 486	1HD1	ILE A	36 142.384	3.954	3.443 1.00 0.00
ATOM 487	2HD	I ILE A	36 142.225	2.999	1.970 1.00 0.00
ATOM 488	3HD	I ILE A	36 143.276	4.415	1.994 1.00 0.00
ATOM 489	N	ARG A	37 148.276	3.661	4.804 1.00 0.00
ATOM 490	CA	ARG A	37 149.245	4.367	5.633 1.00 0.00
ATOM 491	С	ARG A	37 149.477	5.782	5.116 1.00 0.00
ATOM 492	0	ARG A	37 149.185	6.761	5.804 1.00 0.00
ATOM 493	CB	ARG A	37 150.569	3.602	5.672 1.00 0.00
ATOM 494	CG	ARG A	37 150.404	2.115	5.937 1.00 0.00
ATOM 495	CD	ARG A	37 150.291	1.823	7.424 1.00 0.00
ATOM 496	NE	ARG A	37 149.079	2.397	8.006 1.00 0.00
ATOM 497	CZ	ARG A	37 148.908	2.602	9.309 1.00 0.00
ATOM 498	NH1	ARG A	37 149.866	2.280	10.170 1.00 0.00
ATOM 499	NH2	ARG A	37 147.775	3.129	9.754 1.00 0.00
ATOM 500	Н	ARG A	37 148.478	3.510	3.857 1.00 0.00

ATOM 501	HA AR	G A	37	148.844	4.424	6.635	1.00 (). 00
· ATOM 502	1HB AR	G A	37	151.068	3.724	4.723	1.00 ().00
ATOM 503	2HB AR	CG A	37	151.188	4.018	6.452	1.00 ().00
ATOM 504	1HG AF	RG A	37	149.508	1.768	5.443	1.00 ().00
ATOM 505	2HG AF	RG A	37	151.261	1.592	5.540	1.00 (0.00
ATOM 506	1HD AF	RG A	37	150.274	0.753	7.568	1.00	0.00
ATOM 507	2HD AF	RG A	37	151.152	2.240	7.926	1.00	0.00
ATOM 508	HE AI	RG A	37	148.356	2.643	7.392	1.00	0.00
ATOM 509	1HH1 AI	RG A	37	150.722	1.882	9.843	1.00	0.00
ATOM 510	2HH1 Al	RG A	37	149.730	2.437	11.149	1.00	0.00
ATOM 511	1HH2 A	RG A	37	147.050	3.372	9.109	1.00	0.00
ATOM 512	2HH2 A	RG A	37	147.646	3.282	10.734	1.00	0.00
ATOM 513	N T	RP A	38	150.004	5.886	3.900	1.00	0.00
ATOM 514	CA T	RP A	38	150.274	7.185	3.294	1.00	0.00
ATOM 515	C T	RP A	38	149.557	7.323	1.954	1.00	0.00
ATOM 516	0 Т	RP A	38	149.618	6.430	1.110	1.00	0.00
ATOM 517	CB T	RP A	38	151.783	7.382	3.104	1.00	0.00
ATOM 518	CG T	RP A	38	152.128	8.579	2.267	1.00	0.00
ATOM 519	CD1 T	RP A	38	152.387	9.844	2.710	1.00	0.00
ATOM 520	CD2 T	RP A	38	152.247	8.620	0.840	1.00	0.00
ATOM 521	NE1 7	TRP A	38	3 152.659	10.670	1.646	1.00	0.00
ATOM 522	CE2	TRP A	38	3 152.579	9.941	0.486	1.00	0.00
ATOM 523	CE3	TRP A	38	3 152.104	7.668	-0.174	1.00	0.00
ATOM 524	CZ2	TRP A	38	3 152.771	10.333	-0.836	1.00	0.00
ATOM 525	CZ3	TRP A	. 38	3 152.296	8.057	-1.486	1.00	0.00
ATOM 526	CH2 ′	TRP A	. 38	8 152.625	9.380	-1.807	1.00	0.00
ATOM 527	Н ′	TRP A	. 38	8 150.216	5.071	3.400	1.00	0.00
ATOM 528	HA '	TRP A	. 38	8 149.904	7.945	3.964	1.00	0.00
ATOM 529	1HB	TRP A	3	8 152.247	7.508	4.071	1.00	0.00

ATOM 530	2HB	TRP A	38	152.195	6.507	2.623 1.00 0.00
ATOM 531	HD1	TRP A	38	152.376	10.139	3.748 1.00 0.00
ATOM 532	HE1	TRP A	38	152.875	11.623	1.706 1.00 0.00
ATOM 533	HE3	TRP A	38	151.850	6.644	0.055 1.00 0.00
ATOM 534	HZ2	TRP A	38	153.022	11.349	-1.102 1.00 0.00
ATOM 535	HZ3	TRP A	38	152. 189	7.335	-2.281 1.00 0.00
ATOM 536	HH2	TRP A	38	152.765	9.638	-2.847 1.00 0.00
ATOM 537	N	ILE A	39	148.889	8.456	1.765 1.00 0.00
ATOM 538	CA	ILE A	39	148.169	8.727	0.528 1.00 0.00
ATOM 539	C	ILE A	39	148.631	10.044	-0.083 1.00 0.00
ATOM 540	0	ILE A	39	148.297	11.119	0.414 1.00 0.00
ATOM 541	CB	ILE A	39	146.647	8.785	0.762 1.00 0.00
ATOM 542	CG1	ILE A	39	146.181	7.562	1.554 1.00 0.00
ATOM 543	CG2	ILE A	39	145.911	8.876	-0.567 1.00 0.00
ATOM 544	CD1	ILE A	39	144.818	7.736	2.187 1.00 0.00
ATOM 545	Н	ILE A	39	148.887	9.132	2.475 1.00 0.00
ATOM 546	HA	ILE A	39	148.378	7.924	-0.165 1.00 0.00
ATOM 547	HB	ILE A	39	9 146.427	9.678	1.328 1.00 0.00
ATOM 548	140	31 ILE A	39	9 146.134	6.710	0.893 1.00 0.00
ATOM 549	2H0	31 ILE A	39	9 146.891	7.360	2.342 1.00 0.00
ATOM 550	1H0	G2 ILE A	. 39	9 146.058	9.857	-0.994 1.00 0.00
ATOM 551	2H0	G2 ILE A	. 3	9 144.856	8.708	-0.405 1.00 0.00
ATOM 552	3H(G2 ILE A	. 3	9 146.295	8.127	-1.243 1.00 0.00
ATOM 553	1HI	O1 ILE A	. 3	9 144.725	8.742	2.569 1.00 0.00
ATOM 554	2H	D1 ILE A	3	9 144.706	7.032	2.998 1.00 0.00
ATOM 555	3H	D1 ILE A	3	9 144.052	7.559	1.446 1.00 0.00
ATOM 556	N	GLY A	A 4	0 149.407	9.955	-1.159 1.00 0.00
ATOM 557	CA	GLY A	A 4	0 149.906	5 11.152	-1.808 1.00 0.00
ATOM 558	С	GLY A	A 4	150.448	3 10.884	-3.197 1.00 0.00

ATOM 559	0	GLY A	40 150.274	9.794	-3.742 1.00 0.00
ATOM 560	H	GLY A	40 149.646	9.072	-1.510 1.00 0.00
ATOM 561	1HA	GLY A	40 149.104	11.870	-1.880 1.00 0.00
ATOM 562	2HA	GLY A	40 150.693	11.572	-1.202 1.00 0.00
ATOM 563	N	GLN A	41 151.109	11.884	-3.769 1.00 0.00
ATOM 564	CA	GLN A	41 151.683	11.763	-5.103 1.00 0.00
ATOM 565	С	GLN A	41 153.162	12.148	-5.090 1.00 0.00
ATOM 566	0	GLN A	41 153.506	13.302	-4.830 1.00 0.00
ATOM 567	CB	GLN A	41 150.919	12.654	-6.082 1.00 0.00
ATOM 568	CG	GLN A	41 149.411	12.488	-6.004 1.00 0.00
ATOM 569	CD	GLN A	41 148.672	13.804	-6.138 1.00 0.00
ATOM 570	OE1	GLN A	41 148.635	14.607	-5.206 1.00 0.00
ATOM 571	NE2	GLN A	41 148.077	14.033	-7.304 1.00 0.00
ATOM 572	Н	GLN A	41 151.213	12.728	-3.282 1.00 0.00
ATOM 573	HA	GLN A	41 151.588	10.735	-5.415 1.00 0.00
ATOM 574	1HB	GLN A	41 151.157	13.685	-5.871 1.00 0.00
ATOM 575	2HB	GLN A	41 151.235	12.418	-7.086 1.00 0.00
ATOM 576	1HG	GLN A	41 149.090	11.832	-6.799 1.00 0.00
ATOM 577	2HG	GLN A	41 149.158	12.046	-5.051 1.00 0.00
ATOM 578	1HE	2 GLN A	41 148.148	13.349	-8.000 1.00 0.00
ATOM 579	2HE	2 GLN A	41 147.594	14.878	-7.418 1.00 0.00
ATOM 580	N	PRO A	42 154.062	11. 187	-5.368 1.00 0.00
ATOM 581	CA	PRO A	42 155.507	11.441	-5.381 1.00 0.00
ATOM 582	С	PRO A	42 155.892	12.546	-6.360 1.00 0.00
ATOM 583	0	PRO A	42 155.139	12.859	-7.283 1.00 0.00
ATOM 584	CB	PRO A	42 156.107	10.102	-5.822 1.00 0.00
ATOM 585	CG	PRO A	42 155.065	9.090	-5.491 1.00 0.00
ATOM 586	CD	PRO A	42 153.749	9.784	-5.689 1.00 0.00
ATOM 587	HA	PRO A	42 155.871	11.695	-4.396 1.00 0.00

ATOM 588	1HB	PRO A	42 156.311	10.129	-6.882 1.00 0.00
ATOM 589	2HB	PRO A	42 157.022	9.918	-5.279 1.00 0.00
ATOM 590	1HG	PRO A	42 155.148	8.245	-6.157 1.00 0.00
ATOM 591	2HG	PRO A	42 155.173	8.774	-4.464 1.00 0.00
ATOM 592	1HD	PRO A	42 153.419	9.686	-6.713 1.00 0.00
ATOM 593	2HD	PRO A	42 153.007	9.389	-5.010 1.00 0.00
ATOM 594	N	PRO A	43 157.076	13. 153	-6.172 1.00 0.00
ATOM 595	CA	PRO A	43 157.559	14.227	-7.043 1.00 0.00
ATOM 596	С	PRO A	43 157.974	13.715	-8.417 1.00 0.00
ATOM 597	0	PRO A	43 159.140	13.389	-8.642 1.00 0.00
ATOM 598	CB	PRO A	43 158.771	14.776	-6.291 1.00 0.00
ATOM 599	CG	PRO A	43 159.256	13.633	-5.468 1.00 0.00
ATOM 600	CD	PRO A	43 158.034	12.839	-5.096 1.00 0.00
ATOM 601	HA	PRO A	43 156.820	15.006	-7.159 1.00 0.00
ATOM 602	1HB	PRO A	43 159.519	15.100	-7.000 1.00 0.00
ATOM 603	2HB	PRO A	43 158.469	15.608	-5.673 1.00 0.00
ATOM 604	1HG	PRO A	43 159.935	13.027	-6.048 1.00 0.00
ATOM 605	2HG	PRO A	43 159.747	14.004	-4.580 1.00 0.00
ATOM 606	1HD	PRO A	43 158.262	11.783	-5.079 1.00 0.00
ATOM 607	2HD	PRO A	43 157.654	13. 158	-4.137 1.00 0.00
ATOM 608	N	GLY A	44 157.015	13.646	-9.332 1.00 0.00
ATOM 609	CA	GLY A	44 157.304	13.172	-10.672 1.00 0.00
ATOM 610	C	GLY A	44 156.071	12.647	-11.380 1.00 0.00
ATOM 611	0	GLY A	44 155.783	13.041	-12.510 1.00 0.00
ATOM 612	Н	GLY A	44 156.104	13.919	-9.097 1.00 0.00
ATOM 613	1HA	GLY A	44 157.716	13.985	-11.248 1.00 0.00
ATOM 614	2HA	GLY A	44 158.035	12.380	-10.612 1.00 0.00
ATOM 615	N	LEU A	45 155.344	11.756	-10.716 1.00 0.00
ATOM 616	CA	LEU A	45 154.136	11.177	-11.291 1.00 0.00

ATOM	617	C	LEU .	A	45	152.926	11.462	-10.410	1.00	0.00
ATOM	618	0	LEU .	A	45	152.826	10.948	-9.296	1.00	0.00
ATOM	619	CB	LEU .	A	45	154.307	9.668	-11.472	1.00	0.00
ATOM	620	CG	LEU .	A	45	154.840	8.927	-10.245	1.00	0.00
ATOM	621	CD1	LEU .	A	45	154.467	7.451	-10.307	1.00	0.00
ATOM	622	CD2	LEU	A	45	156.350	9.096	-10.132	1.00	0.00
ATOM	623	Н	LEU	A	45	155.624	11.483	-9.816	1.00	0.00
ATOM	624	HA	LEU	A	45	153.977	11.632	-12.258	1.00	0.00
ATOM	625	1HB	LEU	A	45	153.346	9.248	-11.733	1.00	0.00
ATOM	626	2HB	LEU	A	45	154.989	9.500	-12.292	1.00	0.00
ATOM	627	HG	LEU	A	45	154.389	9.345	-9.357	1.00	0.00
ATOM	628	1HD1	LEU	A	45	153.870	7.266	-11.188	1.00	0.00
ATOM	629	2HD1	LEU	A	45	153.901	7.186	-9.427	1.00	0.00
ATOM	630	3HD1	LEU	A	45	155.365	6.852	-10.350	1.00	0.00
ATOM	6 3 1	1HD2	LEU	A	45	156.683	9.843	-10.837	1.00	0.00
ATOM	632	2HD2	LEU	A	45	156.836	8.157	-10.349	1.00	0.00
ATOM	633	3HD2	LEU	A	45	156.602	9.408	-9.130	1.00	0.00
ATOM	634	N	ASN	A	46	152.008	12.282	-10.911	1.00	0.00
ATOM	635	CA	ASN	A	46	150.810	12.622	-10.156	1.00	0.00
ATOM	636	С	ASN	A	46	149.846	11.443	-10.124	1.00	0.00
ATOM	637	0	ASN	A	46	149.218	11.110	-11.130	1.00	0.00
ATOM	638	CB	ASN	A	46	150.123	13.843	-10.773	1.00	0.00
ATOM	639	CG	ASN	A	46	149.380	14.670	-9.743	1.00	0.00
ATOM	640	OD1	ASN	A	46	149.955	15.100	-8.743	1.00	0.00
ATOM	641	ND2	ASN	A	46	148.095	14.900	-9.984	1.00	0.00
ATOM	642	Н	ASN	A	46	152.139	12.664	-11.804	1.00	0.00
ATOM	643	HA	ASN	A	46	151.108	12.858	-9.146	1.00	0.00
ATOM	644	1HB	ASN	A	46	150.868	14.469	-11.241	1.00	0.00
ATOM	645	2HB	ASN	A	46	149.417	13.51	-11.519	1.00	0.00

ATOM 646	1HD2	ASN A	46 147.703	14.526 -10.	801 1.00 0.00
ATOM 647	2HD2		46 147.590		335 1.00 0.00
ATOM 648		GLU A	47 149.734	10.813 -8.	961 1.00 0.00
			47 148.848		790 1.00 0.00
ATOM 649		GLU A			312 1.00 0.00
ATOM 650	_	GLU A	47 148.661		
ATOM 651	0	GLU A	47 149.627		604 1.00 0.00
ATOM 652	CB	GLU A	47 149.405		525 1.00 0.00
ATOM 653	CG	GLU A	47 150.918	8.314 -9	.439 1.00 0.00
ATOM 654	CD	GLU A	47 151.479	7.357 -10	.472 1.00 0.00
ATOM 655	OE1	GLU A	47 151.460	7.702 -11	.672 1.00 0.00
ATOM 656	OE2	GLU A	47 151.937	6.263 -10	.082 1.00 0.00
ATOM 657	Н	GLU A	47 150.262	11.125 -8	.197 1.00 0.00
ATOM 658	HA	GLU A	47 147.889	9.926 -9	.214 1.00 0.00
ATOM 659	1HB	GLU A	47 148.964	7.555 -9	.103 1.00 0.00
ATOM 660	2HB	GLU A	47 149.131	8.513 -10	.568 1.00 0.00
ATOM 661	1HG	GLU A	47 151.360	9.285 -9	.592 1.00 0.00
ATOM 662	2HG	GLU A	47 151.180	7.952 -8	3.455 1.00 0.00
ATOM 663	N	VAL A	48 147.416	9.382 -6	3.851 1.00 0.00
ATOM 664	CA	VAL A	48 147.116	9.085 -5	5.457 1.00 0.00
ATOM 665	С	VAL A		7.642 -	5.124 1.00 0.00
ATOM 666	_				5.438 1.00 0.00
ATOM 667					5.137 1.00 0.00
					3.642 1.00 0.00
ATOM 668			48 145.180		5.652 1.00 0.00
ATOM 669					
ATOM 670					7.462 1.00 0.00
ATOM 671					4.840 1.00 0.00
ATOM 672					5.639 1.00 0.00
					3.401 1.00 0.00
ATOM 674	2HG	1 VAL A	48 146.156	9.719 -	3.103 1.00 0.00

ATOM 675	3HG1 VAL A	48 145.381	8.155	-3.360 1.00 0.00
ATOM 676	1HG2 VAL A	48 144.227	10.934	-5.213 1.00 0.00
ATOM 677	2HG2 VAL A	48 145.083	10.644	-6.726 1.00 0.00
ATOM 678	3HG2 VAL A	48 145.912	11.426	-5.381 1.00 0.00
ATOM 679	N LEU A	49 148.629	7.455	-4.492 1.00 0.00
ATOM 680	CA LEU A	49 149.088	6.123	-4.122 1.00 0.00
ATOM 681	C LEU A	49 148.955	5.904	-2.621 1.00 0.00
ATOM 682	O LEU A	49 149.633	6.554	-1.825 1.00 0.00
ATOM 683	CB LEU A	49 150.544	5.923	-4.550 1.00 0.00
ATOM 684	CG LEU A	49 150.801	6.069	-6.051 1.00 0.00
ATOM 685	CD1 LEU A	49 152.275	6.335	-6.317 1.00 0.00
ATOM 686	CD2 LEU A	49 150.342	4.822	-6.793 1.00 0.00
ATOM 687	H LEU A	49 149.185	8.231	-4.270 1.00 0.00
ATOM 688	HA LEU A	49 148.470	5.404	-4.636 1.00 0.00
ATOM 689	1HB LEU A	49 151.153	6.649	-4.030 1.00 0.00
ATOM 690	2HB LEU A	49 150.854	4.935	-4.249 1.00 0.00
ATOM 691	HG LEU A	49 150.237	6.910	-6.427 1.00 0.00
ATOM 692	1HD1 LEU A	49 152.707	6.843	-5.468 1.00 0.00
ATOM 693	2HD1 LEU A	49 152.376	6.954	-7.197 1.00 0.00
ATOM 694	3HD1 LEU A	49 152.788	5.398	-6.475 1.00 0.00
ATOM 695	1HD2 LEU A	49 151.185	4.165	-6.951 1.00 0.00
ATOM 696	2HD2 LEU A	49 149.921	5.104	-7.746 1.00 0.00
ATOM 697	3HD2 LEU A	49 149.593	4.311	-6.206 1.00 0.00
ATOM 698	n ala a	50 148.077	4.984	-2.240 1.00 0.00
ATOM 699	CA ALA A	50 147.856	4.682	-0.832 1.00 0.00
ATOM 700	C ALA A	50 148.756	3.542	-0.369 1.00 0.00
ATOM 701	O ALA A	50 148.624	2.408	-0.830 1.00 0.00
ATOM 702	CB ALA A	50 146.395	4.337	-0.589 1.00 0.00
ATOM 703	H ALA A	50 147.565	4.497	-2.920 1.00 0.00

ATOM	704	HA	ALA A	50	148.093	5.570	-0.265	1.00	0.00
ATOM	705	1HB	ALA A	50	145.792	4.740	-1.389	1.00	0.00
ATOM	706	2HB	ALA A	50	146.077	4.763	0.352	1.00	0.00
ATOM	707	ЗНВ	ALA A	50	146. 278	3.265	-0.556	1.00	0.00
ATOM	708	N	GLY A	51	149.671	3.850	0.545	1.00	0.00
ATOM	709	CA	GLY A	51	150.578	2.839	1.056	1.00	0.00
ATOM	710	С	GLY A	51	149.878	1.821	1.933	1.00	0.00
ATOM	711	0	GLY A	51	149.350	2.162	2.991	1.00	0.00
ATOM	712	Н	GLY A	51	149.730	4.770	0.876	1.00	0.00
ATOM	713	1HA	GLY A	51	151.034	2.326	0.221	1.00	0.00
ATOM	714	2HA	GLY A	51	151.352	3.324	1.631	1.00	0.00
ATOM	715	N	LEU A	52	149.873	0.567	1.494	1.00	0.00
ATOM	716	CA	LEU A	52	149. 232	-0.504	2.247	1.00	0.00
ATOM	717	С	LEU A	52	150.270	-1.379	2.943	1.00	0.00
ATOM	718	0	LEU A	52	151.305	-1.710	2.364	1.00	0.00
ATOM	719	CB	LEU A	52	148.365	-1.360	1.322	1.00	0.00
ATOM	720	CG	LEU A	52	147.140	-0.650	0.742	1.00	0.00
ATOM	721	CD1	LEU A	52	146.534	-1.469	-0.388	1.00	0.00
ATOM	722	CD2	LEU A	52	146.108	-0.394	1.830	1.00	0.00
ATOM	723	Н	LEU A	52	150.311	0.356	0.643	1.00	0.00
ATOM	724	HA	LEU A	52	148.601	-0.050	2.997	1.00	0.00
ATOM	725	1HB	LEU A	52	148.980	-1.701	0.501	1.00	0.00
ATOM	726	2HB	LEU A	52	148.024	-2.221	1.876	1.00	0.00
ATOM	727	HG	LEU A	52	147.444	0.305	0.336	1.00	0.00
ATOM	728	1HD1	LEU A	52	145.929	-0.828	-1.012	1.00	0.00
ATOM	729	2HD1	LEU A	52	145.918	-2.253	0.027	1.00	0.00
ATOM	730	3HD1	LEU A	52	147.324	-1.906	-0.979	1.00	0.00
ATOM	731	1HD2	LEU A	52	146.587	0.078	2.675	1.00	0.00
ATOM	732	2HD2	LEU A	52	145.673	-1.332	2.141	1.00	0.00

ATOM	733	3HD2	LEU A	52	145.334	0.254	1.447	1.00	0.00
ATOM	734	N	GLU A	53	149.985	-1.750	4.187	1.00	0.00
ATOM	735	CA	GLU A	53	150.892	-2.587	4.962	1.00	0.00
ATOM	736	C	GLU A	53	150.367	-4.015	5.058	1.00	0.00
ATOM	737	0	GLU A	53	149.392	-4.282	5.759	1.00	0.00
ATOM	738	CB	GLU A	53	151.084	-2.006	6.365	1.00	0.00
ATOM	739	CG	GLU A	53	152.053	-2.799	7.225	1.00	0.00
ATOM	740	CD	GLU A	53	151.694	-2.758	8.697	1.00	0.00
ATOM	741	0E1	GLU A	53	152.597	-2.965	9.535	1.00	0.00
ATOM	742	0E2	GLU A	53	150.510	-2.518	9.013	1.00	0.00
ATOM	743	H	GLU A	53	149.143	-1.454	4.594	1.00	0.00
ATOM	744	HA	GLU A	53	151.846	-2.599	4.455	1.00	0.00
ATOM	745	1HB	GLU A	A 53	151.457	-0.996	6.276	1.00	0.00
ATOM	746	2HB	GLU A	1 53	150.127	-1.982	6.865	1.00	0.00
ATOM	747	1HG	GLU A	A 53	152.046	-3.828	6.898	1.00	0.00
ATOM	748	2HG	GLU A	A 53	153.045	-2.389	7.100	1.00	0.00
ATOM	749	N	LEU A	A 54	151.021	-4.929	4.348	1.00	0.00
ATOM	7 50	CA	LEU A	A 54	150.618	-6.331	4.353	1.00	0.00
ATOM	751	C	LEU A	A 54	150.983	-6.997	5.676	1.00	0.00
ATOM	752	0	LEU A	A 54	152.069	-6.783	6.212	1.00	0.00
ATOM	753	CB	LEU A	A 54	151.282	-7.078	3.194	1.00	0.00
ATOM	754	CG	LEU A	A 54	151. 184	-6.382	1.835	1.00	0.00
ATOM	755	CD1	LEU A	A 54	152. 187	-6.976	0.859	1.00	0.00
ATOM	756	CD2	LEU A	A 54	149.771	-6.491	1.283	1.00	0.00
ATOM	757	H	LEU A	A 54	151.791	-4.655	3.808	1.00	0.00
ATOM	758	HA	LEU A	A 54	149.547	-6.369	4.227	1.00	0.00
ATOM	759	1HB	LEU A	A 54	152.327	-7.213	3.433	1.00	0.00
ATOM	760	2HB	LEU A	A 54	150.821	-8.050	3.109	1.00	0.00
ATOM	761	HG	LEU A	A 54	151.417	-5.334	1.957	1.00	0.00

ATOM	762	1HD1	LEU	A	54	151.706	-7.745	0.272	1.00	0.00
ATOM	763	2HD1	LEU	A	54	153.012	-7.406	1.407	1.00	0.00
ATOM	764	3HD1	LEU	A	54	152.555	-6.200	0.205	1.00	0.00
ATOM	765	1HD2	LEU	A	54	149.795	-6.380	0.209	1.00	0.00
ATOM	766	2HD2	LEU	A	54	149.156	-5.713	1.712	1.00	0.00
ATOM	767	3HD2	LEU	A	54	149.359	-7.457	1.536	1.00	0.00
ATOM	768	N	GLU	A	55	150.065	-7.806	6.197	1.00	0.00
ATOM	769	CA	GLU	A	55	150.290	-8.504	7.458	1.00	0.00
ATOM	770	C	GLU	A	55	151.347	-9.593	7.295	1.00	0.00
ATOM	771	0	GLU	A	55	152.090	-9.894	8.229	1.00	0.00
ATOM	772	CB	GLU	A	55	148.983	-9.117	7.965	1.00	0.00
ATOM	773	CG	GLU	A	55	147.843	-8.118	8.067	1.00	0.00
ATOM	774	CD	GLU	A	55	147.017	-8.302	9.326	1.00	0.00
ATOM	775 .	0E1	GLU	A	55	147.071	-9.401	9.916	1.00	0.00
ATOM	776	OE2	GLU	A	55	146.318	-7.346	9.722	1.00	0.00
ATOM	777	Н	GLU	A	55	149.218	-7.937	5.723	1.00	0.00
ATOM	778	HA	GLU	A	55	150.642	-7.782	8.179	1.00	0.00
ATOM	779	1HB	GLU	A	55	148.683	-9.906	7.291	1.00	0.00
ATOM	780	2HB	GLU	A	55	149.154	-9.538	8.945	1.00	0.00
ATOM	781	1HG	GLU	A	55	148.254	-7.120	8.069	1.00	0.00
ATOM	782	2HG	GLU	A	55	147. 198	-8.239	7.210	1.00	0.00
ATOM	783	N	ASP	A	56	151.406	-10.179	6.103	1.00	0.00
ATOM	784	CA	ASP	A	56	152.372	-11.234	5.818	1.00	0.00
ATOM	785	С	ASP	A	56	153.664	-10.651	5.256	1.00	0.00
ATOM	786	0	ASP	A	56	153.650	-9.931	4.258	1.00	0.00
ATOM	787	CB	ASP	A	56	151.781	-12.241	4.830	1.00	0.00
ATOM	788	CG	ASP	A	56	150.691	-13.091	5.453	1.00	0.00
ATOM	789	O D1	ASP	A	56	149.769	-13.504	4.718	1.00	0.00
ATOM	790	OD2	ASP	A	56	150.759	-13.342	6.674	1.00	0.00

ATOM 791	H	ASP A	56 150.786 -9.895	5.399 1.00 0.00
ATOM 792	HA	ASP A	56 152.593 -11.741	6.745 1.00 0.00
ATOM 793	1HB	ASP A	56 151.362 -11.708	3.990 1.00 0.00
ATOM 794	2HB	ASP A	56 152.566 -12.895	4.480 1.00 0.00
ATOM 795	N	GLU A	57 154.781 -10.966	5.905 1.00 0.00
ATOM 796	CA	GLU A	57 156.083 -10.474	5.470 1.00 0.00
ATOM 797	С	GLU A	57 156.427 -10.999	4.080 1.00 0.00
ATOM 798	0	GLU A	57 156.851 -12.145	3.927 1.00 0.00
ATOM 799	CB	GLU A	57 157.167 -10.886	6.467 1.00 0.00
ATOM 800	CG	GLU A	57 157.113 -10.116	7.776 1.00 0.00
ATOM 801	CD	GLU A	57 157.985 -10.733	8.852 1.00 0.00
ATOM 802	0E1	GLU A	57 158.567 -9.973	9.653 1.00 0.00
ATOM 803	0E2	GLU A	57 158.086 -11.977	8.892 1.00 0.00
ATOM 804	Н	GLU A	57 154.728 -11.545	6.694 1.00 0.00
ATOM 805	HA	GLU A	57 156.033 -9.396	5.431 1.00 0.00
ATOM 806	1HB	GLU A	57 157.056 -11.937	6.687 1.00 0.00
ATOM 807	2HB	GLU A	57 158.135 -10.721	6.017 1.00 0.00
ATOM 808	1HG	GLU A	57 157.448 -9.105	7.599 1.00 0.00
ATOM 809	2HG	GLU A	57 156.092 -10.099	8.127.1.00 0.00
ATOM 810	N	CYS A	58 156.242 -10.156	3.070 1.00 0.00
ATOM 811	CA	CYS A	58 156.533 -10.535	1.693 1.00 0.00
ATOM 812	С	CYS A	58 157.946 -10.114	1.300 1.00 0.00
ATOM 813	0	CYS A	58 158.303 -8.939	1.397 1.00 0.00
ATOM 814	CB	CYS A	58 155.516 -9.904	0.742 1.00 0.00
ATOM 815	SG	CYS A	58 154.053 -10.924	0.443 1.00 0.00
ATOM 816	Н	CYS A	58 155.901 -9.256	3.256 1.00 0.00
ATOM 817	НА	CYS A	58 156.460 -11.611	1.623 1.00 0.00
ATOM 818	1HE	CYS A	58 155.181 -8.965	1.156 1.00 0.00
ATOM 819	2HE	CYS A	58 155.991 -9.722	-0.212 1.00 0.00

ATOM 820	HG	CYS A	58 153 934	-10, 999	-0.506 1.00 0.00
ATOM 821	N	ALA A			0.855 1.00 0.00
ATOM 822	CA	ALA A			0.448 1.00 0.00
ATOM 823	C	ALA A	59 160.156		-0.826 1.00 0.00
ATOM 824	0	ALA A	59 159.813		-1.907 1.00 0.00
ATOM 825	СВ	ALA A			0.249 1.00 0.00
ATOM 826	Н				0.801 1.00 0.00
		ALA A			
ATOM 827	HA	ALA A			1.243 1.00 0.00
ATOM 828	1HB	ALA A	59 160.889		-0.801 1.00 0.00
ATOM 829	2HB	ALA A	59 160.387		0.802 1.00 0.00
ATOM 830	3HB	ALA A	59 161.889		0.605 1.00 0.00
ATOM 831	N	GLY A	60 160.576	-8.716	-0.692 1.00 0.00
ATOM 832	CA	GLY A	60 160.651	-7.832	-1.840 1.00 0.00
ATOM 833	С	GLY A	60 160.053	-6.468	-1.563 1.00 0.00
ATOM 834	0	GLY A	60 160.466	-5.470	-2.152 1.00 0.00
ATOM 835	H	GLY A	60 160.836	-8.388	0.194 1.00 0.00
ATOM 836	1HA	GLY A	60 161.688	-7.708	-2.117 1.00 0.00
ATOM 837	2HA	GLY A	60 160.122	-8.286	-2.665 1.00 0.00
ATOM 838	N	CYS A	61 159.074	-6.425	-0.664 1.00 0.00
ATOM 839	CA	CYS A	61 158.416	-5.173	-0.311 1.00 0.00
ATOM 840	С	CYS A	61 159.344	-4.284	0.510 1.00 0.00
ATOM 841	0	CYS A	61 160.455	-4.683	0.860 1.00 0.00
ATOM 842	CB	CYS A	61 157.132	-5.451	0.472 1.00 0.00
ATOM 843	SG	CYS A	61 156.021	-6.631	-0.329 1.00 0.00
ATOM 844	Н	CYS A	61 158.788	-7.255	-0.229 1.00 0.00
ATOM 845	HA	CYS A	61 158.164	-4.661	-1.227 1.00 0.00
ATOM 846	1HB	CYS A	61 157.389	-5.850	1.442 1.00 0.00
ATOM 847	2HB	CYS A	61 156.591	-4.525	0.602 1.00 0.00
ATOM 848	HG		61 155.639		0.354 1.00 0.00

ATOM	849	N	THR	A	62	158.881	-3.076	0.816	1.00	0.00
ATOM	850	CA	THR	A	62	159.669	-2.129	1.596	1.00	0.00
ATOM	851	С	THR	A	62	159.163	-2.056	3.034	1.00	0.00
ATOM	852	0	THR	A	62	158.177	-2.701	3.389	1.00	0.00
ATOM	853	CB	THR	Α	62	159.619	-0.742	0.955	1.00	0.00
ATOM	854	0G1	THR	A	62	158.314	-0.454	0.483	1.00	0.00
ATOM	855	CG2	THR	A	62	160.573	-0.585	-0.208	1.00	0.00
ATOM	856	H	THR	A	62	157.987	-2.815	0.509	1.00	0.00
ATOM	857	HA .	THR	A	62	160.691	-2.476	1.603	1.00	0.00
ATOM	858	HB	THR	A	62	159.881	-0.003	1.699	1.00	0.00
ATOM	859	HG1	THR	A	62	157.782	-0.107	1.204	1.00	0.00
ATOM	860	1HG2	THR	A	62	160.889	-1.560	-0.549	1.00	0.00
ATOM	861	2HG2	THR	A	62	161.435	-0.018	0.108	1.00	0.00
ATOM	862	3HG2	THR	A	62	160.076	-0.066	-1.014	1.00	0.00
ATOM	863	N	ASP	A	63	159.847	-1.268	3.857	1.00	0.00
ATOM	864	CA	ASP	A	63	159.467	-1.109	5.255	1.00	0.00
ATOM	865	C	ASP	A	63	158.836	0.257	5.497	1.00	0.00
ATOM	866	0	ASP	A	63	158.965	0.829	6.578	1.00	0.00
ATOM	867	CB	ASP	A	63	160.689	-1.287	6.160	1.00	0.00
ATOM	868	CG	ASP	A	63	161.787	-0.290	5.849	1.00	0.00
ATOM	869	OD1	ASP	A	63	162.647	-0.600	4.998	1.00	0.00
ATOM	870	OD2	ASP	A	63	161.789	0.801	6.458	1.00	0.00
ATOM	871	H	ASP	A	63	160.625	-0.779	3.514	1.00	0.00
ATOM	872	HA.	ASP	A	63	158.743	-1.875	5.490	1.00	0.00
ATOM	873	1HB	ASP	A	63	160.388	-1.156	7.188	1.00	0.00
ATOM	874	2HB	ASP	A	63	161.083	-2.284	6.029	1.00	0.00
ATOM	875	N	GLY	A	64	158. 152	0.775	4.482	1.00	0.00
ATOM	876	CA	GLY	A	64	157.511	2.071	4.603	1.00	0.00
ATOM	877	С	GLY	Α	64	158.215	3.146	3.799	1.00	0.00

ATOM	878	0	GLY A	A (64	158375	4.274	4.263	1.00	0.00
ATOM	879	Н	GLY A	A (64	158.083	0.274	3.642	1.00	0.00
ATOM	880	1HA	GLY A	A (64	156.490	1.989	4.257	1.00	0.00
ATOM	881	2HA	GLY A	A	64	157.505	2.362	5.643	1.00	0.00
ATOM	882	N	THR A	A	65	158.638	2.795	2.589	1.00	0.00
ATOM	883	CA	THR	A	65	159.329	3.737	1.717	1.00	0.00
ATOM	884	С	THR	A	65	158.943	3.515	0.260	1.00	0.00
ATOM	885	0	THR .	A	65	159.044	2.402	-0.257	1.00	0.00
ATOM	886	CB	THR .	A	65	160.844	3.600	1.884	1.00	0.00
ATOM	887	OG1	THR .	A	65	161.250	2.258	1.686	1.00	0.00
ATOM	888	CG2	THR .	A	65	161.338	4.034	3.246	1.00	0.00
ATOM	889	Н	THR .	A	65	158.481	1.880	2.275	1.00	0.00
ATOM	890	HA	THR	A	65	159.034	4.734	2.008	1.00	0.00
ATOM	891	HB	THR	A	65	161.334	4.215	1.143	1.00	0.00
ATOM	892	HG1	THR	A	65	160.827	1.907	0.900	1.00	0.00
ATOM	893	1HG2	THR	A	65	160.554	4.569	3.761	1.00	0.00
ATOM	894	2HG2	THR	A	65	162.197	4.679	3.129	1.00	0.00
ATOM	895	3HG2	THR	A	65	161.619	3.164	3.822	1.00	0.00
ATOM	896	N	PHE	A	66	158.503	4.581	-0.399	1.00	0.00
ATOM	897	CA	PHE	A	66	158. 101	4.504	-1.799	1.00	0.00
ATOM	898	C	PHE	A	66	159.101	5.230	-2.694	1.00	0.00
ATOM	899	0	PHE	A	66	159. 198	6.457	-2.665	1.00	0.00
ATOM	900	CB	PHE	A	66	156.705	5.101	-1.985	1.00	0.00
ATOM	901	CG	PHE	A	66	156.083	4.770	-3.311	1.00	0.00
ATOM	902	CD1	PHE	A	66	155.689	5.778	-4.177	1.00	0.00
ATOM	903	CD2	PHE	A	66	155.893	3.452	-3.692	1.00	0.00
ATOM	904	CE1	PHE	A	66	155.116	5.476	-5.398	1.00	0.00
ATOM	905	CE2	PHE	A	66	155.321	3.144	-4.912	1.00	0.00
ATOM	906	CZ	PHE	A	66	154.932	4.158	-5.766	1.00	0.00

ATOM 907	H	PHE A	66 158.446	5.442	0.066 1.00 0.00
ATOM 908	HA	PHE A	66 158.077	3.461	-2.080 1.00 0.00
ATOM 909	1HB	PHE A	66 156.055	4.726	-1.211 1.00 0.00
ATOM 910	2HB	PHE A	66 156.768	6.176	-1.906 1.00 0.00
ATOM 911	HD1	PHE A	66 155.833	6.809	-3.891 1.00 0.00
ATOM 912	HD2	PHE A	66 156.196	2.659	-3.026 1.00 0.00
ATOM 913	HE1	PHE A	66 154.813	6.271	-6.064 1.00 0.00
ATOM 914	HE2	PHE A	66 155.178	2.112	-5.197 1.00 0.00
ATOM 915	HZ	PHE A	66 154.485	3.919	-6.720 1.00 0.00
ATOM 916	N	ARG A	67 159.843	4.465	-3.487 1.00 0.00
ATOM 917	CA	ARG A	67 160.835	5.035	-4.390 1.00 0.00
ATOM 918	С	ARG A	67 161.898	5.807	-3.615 1.00 0.00
ATOM 919	0	ARG A	67 162.370	6.853	-4.062 1.00 0.00
ATOM 920	CB	ARG A	67 160.158	5.956	-5.408 1.00 0.00
ATOM 921	CG	ARG A	67 158.907	5.359	-6.030 1.00 0.00
ATOM 922	CD	ARG A	67 158.567	6.031	-7.350 1.00 0.00
ATOM 923	NE	ARG A	67 157.502	5.330	-8.063 1.00 0.00
ATOM 924	CZ	ARG A	67 157.666	4.161	-8.677 1.00 0.00
ATOM 925	NH1	ARG A	67 158.849	3.558	-8.668 1.00 0.00
ATOM 926	NH2	ARG A	67 156.644	3.591	-9.302 1.00 0.00
ATOM 927	H	ARG A	67 159.719	3.493	-3.465 1.00 0.00
ATOM 928	HA	ARG A	67 161.311	4.220	-4.917 1.00 0.00
ATOM 929	1HB	ARG A	67 159.886	6.877	-4.916 1.00 0.00
ATOM 930	2HB	ARG A	67 160.859	6.174	-6.199 1.00 0.00
ATOM 931	1HG	ARG A	67 159.071	4.306	-6.206 1.00 0.00
ATOM 932	2HG	ARG A	67 158.080	5.488	-5.346 1.00 0.00
ATOM 933	1HD	ARG A	67 158.248	7.043	-7.152 1.00 0.00
ATOM 934	2HD	ARG A	67 159.452	6.048	-7.969 1.00 0.00
ATOM 935	HE.	ARG A	67 156.618	5.753	-8.086 1.00 0.00

ATOM 936	1HH1 .	ARG A	67 159.623	3.982	-8.199 1.00 0.00
ATOM 937	2HH1	ARG A	67 158.966	2.679	-9.131 1.00 0.00
ATOM 938	1HH2	ARG A	67 155.752	4.040	-9.312 1.00 0.00
ATOM 939	2НН2	ARG A	67 156.767	2.712	-9.763 1.00 0.00
ATOM 940	N	GLY A	68 162.269	5.284	-2.451 1.00 0.00
ATOM 941	CA	GLY A	68 163.274	5.938	-1.632 1.00 0.00
ATOM 942	С	GLY A	68 162.724	7.136	-0.883 1.00 0.00
ATOM 943	0	GLY A	68 163.458	8.076	-0.580 1.00 0.00
ATOM 944	H	GLY A	68 161.859	4.449	-2.145 1.00 0.00
ATOM 945	1HA	GLY A	68 163.658	5.225	-0.917 1.00 0.00
ATOM 946	2HA	GLY A	68 164.084	6.265	-2.268 1.00 0.00
ATOM 947	N	THR A	69 161.430	7.102	-0.584 1.00 0.00
ATOM 948	CA	THR A	69 160.783	8.193	0.133 1.00 0.00
ATOM 949	C	THR A	69 159.899	7.658	1.256 1.00 0.00
ATOM 950	0	THR A	69 158.746	7.291	1.030 1.00 0.00
ATOM 951	CB	THR A	69 159.948	9.040	-0.828 1.00 0.00
ATOM 952	OG1	THR A	69 160.661	9.285	-2.028 1.00 0.00
ATOM 953	CG2	THR A	69 159.546	10.380	-0.251 1.00 0.00
ATOM 954	H	THR A	69 160.897	6.324	-0.852 1.00 0.00
ATOM 955	HA	THR A	69 161.556	8.811	0.565 1.00 0.00
ATOM 956	HB	THR A	69 159.044	8.501	-1.074 1.00 0.00
ATOM 957	HG1	THR A	69 160.425	8.623	-2.681 1.00 0.00
ATOM 958	1HG2	THR A	69 159.640	11.143	-1.010 1.00 0.00
ATOM 959	2HG2	THR A	69 160.189	10.619	0.583 1.00 0.00
ATOM 960	3HG2	THR A	69 158.521	10.334	0.087 1.00 0.00
ATOM 961	N	ARG A	70 160.448	7.616	2.465 1.00 0.00
ATOM 962	CA	ARG A	70 159.709	7.125	3.623 1.00 0.00
ATOM 963	С	ARG A	70 158.552	8.058	3.966 1.00 0.00
ATOM 964	0	ARG A	70 158.739	9.263	4.126 1.00 0.00

ATOM	965	СВ	ARG A	70	160.641	6.985	4.828 1.00 0.00
ATOM	966	CG	ARG A	70	159.945	6.478	6.082 1.00 0.00
ATOM	967	CD	ARG A	70	159.718	7.595	7.090 1.00 0.00
ATOM	968	NE	ARG A	70	160.355	7.311	8.373 1.00 0.00
ATOM	969	CZ	ARG A	70	161.654	7.482	8.610 1.00 0.00
ATOM	970	NH1	ARG A	70	162.457	7.933	7.653 1.00 0.00
ATOM	971	NH2	ARG A	70	162.152	7.201	9.806 1.00 0.00
ATOM	972	H	ARG A	70	161.371	7.922	2.583 1.00 0.00
ATOM	973	HA	ARG A	70	159.310	6.153	3.374 1.00 0.00
ATOM	974	1HB	ARG A	70	161.433	6.293	4.577 1.00 0.00
MOTA	975	2HB	ARG A	70	161.075	7.949	5.046 1.00 0.00
ATOM	976	1HG	ARG A	70	158.990	6.057	5.806 1.00 0.00
ATOM	977	2HG	ARG A	70	160.558	5.714	6.537 1.00 0.00
ATOM	978	1HD	ARG A	70	160.124	8.513	6.692 1.00 0.00
ATOM	979	2HD	ARG A	70	158.654	7.709	7.245 1.00 0.00
ATOM	980	HE	ARG A	70	159.786	6.977	9.097 1.00 0.00
ATOM	981	1HH1	ARG A	70	162.087	8.147	6.749 1.00 0.00
ATOM	982	2HH1	ARG A	70	163.431	8.058	7.838 1.00 0.00
ATOM	983	1HH2	ARG A	70	161.552	6.861	10.530 1.00 0.00
ATOM	984	2HH2	ARG A	70	163.127	7.329	9.983 1.00 0.00
ATOM	985	N	TYR A	71	157.355	7.490	4.077 1.00 0.00
ATOM	986	CA	TYR A	73	1 156.166	8.269	4.402 1.00 0.00
ATOM	1 987	С	TYR A	7	1 155.674	7.950	5.809 1.00 0.00
ATOM	1 988	0	TYR A	7.	1 155.102	8.804	6.486 1.00 0.00
ATOM	1 989	CB	TYR A	7.	1 155.057	7.991	3.386 1.00 0.00
ATON	1 990	CG	TYR A	7	1 155.312	8.601	2.026 1.00 0.00
ATON	1 991	CD1	TYR A	. 7 .	1 155.252	7.827	0.874 1.00 0.00
ATON	1 992	CD2	TYR A	. 7	1 155.614	9.951	1.894 1.00 0.00
ATON	A 993	CE1	TYR A	. 7	1 155.486	8.380	-0.370 1.00 0.00

ATOM 9	994	CE2	TYR	A	71	155.847	10.512	0.653	1.00	0.00
ATOM ?	995	CZ	TYR	A	71	155.783	9.722	-0.476	1.00	0.00
ATOM ?	996	OH	TYR	A	71	156.016	10.276	-1.713	1.00	0.00
ATOM !	997	Н	TYR	A	71	157.270	6.524	3.937	1.00	0.00
ATOM	998	HA	TYR	A	71	156.431	9.314	4.354	1.00	0.00
ATOM	999	1HB	TYR	A	71	154.956	6.924	3.256	1.00	0.00
ATOM	1000	2HB	TYR	A	71	154.126	8.393	3.761	1.00	0.00
ATOM	1001	HD1	TYR	A	71	155.020	6.775	0.960	1.00	0.00
ATOM	1002	HD2	TYR	A	71	155.664	10.567	2.780	1.00	0.00
ATOM	1003	HE1	TYR	A	71	155.435	7.761	-1.254	1.00	0.00
ATOM	1004	HE2	TYR	A	71	156.080	11.563	0.571	1.00	0.00
ATOM	1005	НН	TYR	A	71	156.854	9.955	-2.056	1.00	0.00
ATOM	1006	N	PHE	A	72	155.900	6.714	6.244	1.00	0.00
ATOM	1007	CA	PHE	A	72	155.480	6.283	7.572	1.00	0.00
ATOM	1008	C	PHE	A	72	156.457	5.262	8. 147	1.00	0.00
ATOM	1009	0	PHE	A	72	157.463	4.930	7.521	1.00	0.00
ATOM	1010	CB	PHE	A	72	154.074	5.683	7.515	1.00	0.00
ATOM	1011	CG	PHE	A	72	153.907	4.646	6.442	1.00	0.00
ATOM	1012	CD1	PHE	A	72	153.991	3.296	6.745	1.00	0.00
ATOM	1013	CD2	PHE	A	72	153.664	5.020	5.130	1.00	0.00
ATOM	1014	CE1	PHE	A	72	153.838	2.340	5.760	1.00	0.00
ATOM	1015	CE2	PHE	A	72	153.510	4.068	4.140	1.00	0.00
ATOM	1016	CZ	PHE	A	72	153.597	2.726	4.456	1.00	0.00
MOTA	1017	Н	PHE	A	72	156.362	6.078	5.659	1.00	0.00
ATOM	1018	HA	PHE	A	72	155.466	7.150	8.214	1.00	0.00
MOTA	1019	1HB	PHE	Α	72	153.850	5.219	8.463	1.00	0.00
ATOM	1020	2HB	PHE	A	72	153.361	6.474	7.328	1.00	0.00
ATOM	1021	HD1	PHE	A	72	154.180	2.993	7.765	1.00	0.00
ATOM	1022	HD2	PHE	A	72	153.597	6.069	4.882	1.00	0.00

ATOM :	1023	HE1	PHE A	A	72	153.906	1.291	6.009	1.00	0.00
ATOM :	1024	HE2	PHE A	A	72	153.321	4.372	3.121	1.00	0.00
ATOM :	1025	HZ	PHE	A	72	153.476	1.980	3.684	1.00	0.00
ATOM	1026	N	THR	A	73	156.152	4.768	9.342	1.00	0.00
ATOM	1027	CA	THR .	A	73	157.003	3.784	10.003	1.00	0.00
ATOM	1028	С	THR .	A	73	156.260	2.467	10.201	1.00	0.00
ATOM	1029	0	THR	A	73	155.275	2.404	10.938	1.00	0.00
ATOM	1030	CB	THR	A	73	157.485	4.319	11.352	1.00	0.00
ATOM	1031	0G1	THR	A	73	157.819	5.693	11.256	1.00	0.00
ATOM	1032	CG2	THR	A	73	158.697	3.588	11.888	1.00	0.00
ATOM	1033	Н	THR	A	73	155.336	5.071	9.791	1.00	0.00
ATOM	1034	HA	THR	A	73	157.860	3.608	9.369	1.00	0.00
ATOM	1035	HB	THR	A	73	156.689	4.214	12.075	1.00	0.00
ATOM	1036	HG1	THR	A	73	157.943	6.054	12.137	1.00	0.00
ATOM	1037	1HG2	THR	A	73	158.608	3.479	12.959	1.00	0.00
ATOM	1038	2HG2	THR	A	73	159.589	4.151	11.656	1.00	0.00
ATOM	1039	3HG2	THR	A	73	158.759	2.610	11.431	1.00	0.00
ATOM	1040	N	CYS	A	74	156.736	1.418	9.539	1.00	0.00
ATOM	1041	CA	CYS	A	74	156.116	0.102	9.643	1.00	0.00
ATOM	1042	С	CYS	A	74	157.174	-0.992	9.725	1.00	0.00
ATOM	1043	0	CYS	A	74	158.373	-0.717	9.671	1.00	0.00
ATOM	1044	CB	CYS	A	74	155.198	-0.148	8.444	1.00	0.00
ATOM	1045	SG	CYS	A	74	153.512	0.467	8.665	1.00	0.00
ATOM	1046	H	CYS	A	74	157.524	1.531	8.967	1.00	0.00
ATOM	1047	HA	CYS	A	74	155.525	0.085	10.546	1.00	0.00
ATOM	1048	1HB	CYS	A	74	155.613	0.339	7.575	1.00	0.00
ATOM	1049	2HB	CYS	A	74	155.140	-1.211	8. 261	1.00	0.00
ATOM	1050	HG	CYS	A	74	153.269	0.955	7.875	1.00	0.00
ATOM	1051	N	ALA	A	7	5 156.723	-2.236	9.856	1.00	0.00

ATOM	1052	CA	ALA A	A 75	157.631	-3.373	9.946	1.00	0.00
ATOM	1053	C	ALA A	A 75	158.416	-3.552	8.652	1.00	0.00
ATOM	1054	0	ALA A	A 75	158.263	-2.776	7.708	1.00	0.00
ATOM	1055	CB	ALA A	A 75	156.857	-4.640	10.276	1.00	0.00
ATOM	1056	H	ALA A	A 75	155.756	-2.393	9.894	1.00	0.00
ATOM	1057	HA	ALA A	A 75	158.325	-3.183	10.752	1.00	0.00
ATOM	1058	1HB	ALA A	A 75	156.841	-4.784	11.347	1.00	0.00
ATOM	1059	2HB	ALA A	A 75	157.337	-5.487	9.807	1.00	0.00
ATOM	1060	ЗНВ	ALA A	A 75	155.846	-4.551	9.910	1.00	0.00
ATOM	1061	N	LEU A	A 76	159.258	-4.580	8.613	1.00	0.00
ATOM	1062	CA	LEU A	A 76	160.068	-4.861	7.434	1.00	0.00
ATOM	1063	С	LEU A	A 76	159.357	-5.842	6.507	1.00	0.00
ATOM	1064	0	LEU A	A 76	158.756	-6.816	6.960	1.00	0.00
ATOM	1065	CB	LEU A	A 76	161.428	-5.427	7.847	1.00	0.00
ATOM	1066	CG	LEU A	A 76	162.316	-4.465	8.637	1.00	0.00
ATOM	1067	CD1	LEU A	A 76	163.393	-5.228	9.391	1.00	0.00
ATOM	1068	CD2	LEU .	A 76	162.943	-3.436	7.708	1.00	0.00
ATOM	1069	Н	LEU .	A 76	159.336	-5.163	9.397	1.00	0.00
ATOM	1070	HA	LEU .	A 76	160.219	-3.931	6.908	1.00	0.00
ATOM	1071	1HB	LEU .	A 76	161.259	-6.307	8.451	1.00	0.00
ATOM	1072	2HB	LEU .	A 76	161.959	-5.720	6.954	1.00	0.00
ATOM	1073	HG	LEU .	A 76	161.711	-3.938	9.361	1.00	0.00
ATOM	1074	1HD1	LEU	A 76	164.253	-4.593	9.534	1.00	0.00
ATOM	1075	2HD1	LEU	A 76	163.679	-6.102	8.824	1.00	0.00
ATOM	1076	3HD1	LEU	A 76	163.009	-5.535	10.354	1.00	0.00
ATOM	1077	1HD2	LEU	A 76	163.039	-3.855	6.717	1.00	0.00
ATOM	1078	2HD2	LEU	A 76	163.920	-3.162	8.079	1.00	0.00
ATOM	1079	3HD2	LEU	A 76	162.315	-2.558	7.666	1.00	0.00
ATOM	1080	N	LYS	A 77	159.429	-5.577	5.207	1.00	0.00

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ATOM J	1081	CA	LYS A	77 158.793	-6.436	4.214 1.00 0.00
ATOM 1	1082	С	LYS A	77 157.283	-6.478	4.419 1.00 0.00
ATOM 3	1083	0	LYS A	77 156.656	-7.529	4.285 1.00 0.00
ATOM :	1084	CB	LYS A	77 159.370	-7.851	4.288 1.00 0.00
ATOM :	1085	CG	LYS A	77 160.884	-7.899	4.152 1.00 0.00
ATOM :	1086	CD	LYS A	77 161.333	-7.461	2.766 1.00 0.00
ATOM	1087	CE	LYS A	77 162.582	-6.598	2.832 1.00 0.00
ATOM	1088	NZ	LYS A	77 162.254	-5.158	3.023 1.00 0.00
ATOM	1089	Н	LYS A	77 159.924	-4.785	4.906 1.00 0.00
ATOM	1090	HA	LYS A	77 159.001	-6.024	3.238 1.00 0.00
ATOM	1091	1HB	LYS A	77 159.103	-8.287	5.239 1.00 0.00
ATOM	1092	2HB	LYS A	77 158.940	-8.445	3.496 1.00 0.00
ATOM	1093	1HG	LYS A	77 161.323	-7.240	4.887 1.00 0.00
ATOM	1094	2HG	LYS A	77 161.220	-8.910	4.327 1.00 0.00
ATOM	1095	1HD	LYS A	77 161.545	-8.337	2.174 1.00 0.00
ATOM	1096	2HD	LYS A	77 160.538	-6.894	2.304 1.00 0.00
ATOM	1097	1HE	LYS A	77 163.191	-6.930	3.660 1.00 0.00
ATOM	1098	2HE	LYS A	77 163.134	-6.714	1.912 1.00 0.00
ATOM	1099	1HZ	LYS A	77 161.291	-4.963	2.679 1.00 0.00
ATOM	1100	2HZ	LYS A	77 162.925	-4.564	2.495 1.00 0.00
ATOM	1101	3HZ	LYS A	77 162.307	-4.909	4.032 1.00 0.00
ATOM	1102	N	LYS A	78 156.702	-5.327	4.745 1.00 0.00
ATOM	1103	CA	LYS A	78 155.265	-5.233	4.968 1.00 0.00
ATOM	1104	С	LYS A	78 154.741	-3.857	4.567 1.00 0.00
ATOM	1105	0	LYS A	78 153.838	-3.316	5.206 1.00 0.00
ATOM	1106	CB	LYS A	78 154.936	-5.509	6.436 1.00 0.00
ATOM	1107	CG	LYS A	78 155.439	-6.856	6.930 1.00 0.00
ATOM	1108	CD	LYS A	78 155.044	-7.103	8.377 1.00 0.00
ATOM	1109	CE	LYS A	78 153.565	-7.429	8.503 1.00 0.00

ATOM 1110	0 NZ	LYS A	78 153.262	-8. 159	9.765 1.00 0.00
ATOM 1113	1 H	LYS A	78 157.254	-4.523	4.837 1.00 0.00
ATOM 1112	2 HA	LYS A	78 154.785	-5.980	4.355 1.00 0.00
ATOM 1113	3 1HB	LYS A	78 155.384	-4.737	7.045 1.00 0.00
ATOM 111	4 2HB	LYS A	78 153.864	-5.480	6.566 1.00 0.00
ATOM 111	5 1HG	LYS A	78 155.015	-7.635	6.314 1.00 0.00
ATOM 111	6 2HG	LYS A	78 156.516	-6.878	6.851 1.00 0.00
ATOM 111	7 1HD	LYS A	78 155.619	-7.932	8.760 1.00 0.00
ATOM 111	8 2HD	LYS A	78 155.259	-6.215	8.954 1.00 0.00
ATOM 111	9 1HE	LYS A	78 153.003	-6.507	8.487 1.00 0.00
ATOM 112	0 2HE	LYS A	78 153.271	-8.042	7.663 1.00 0.00
ATOM 112	1 1HZ	LYS A	78 153.299	-9.186	9.602 1.00 0.00
ATOM 112	2 2HZ	LYS A	78 152.312	-7.907	10.105 1.00 0.00
ATOM 112	3 3HZ	LYS A	78 153.957	-7.909	10.497 1.00 0.00
ATOM 112	24 N	ALA A	79 155.313	-3.298	3.507 1.00 0.00
ATOM 112	25 CA	ALA A	79 154.904	-1.986	3.022 1.00 0.00
ATOM 112	26 C	ALA A	79 154.827	-1.964	1.499 1.00 0.00
ATOM 112	27 0	ALA A	79 155.846	-1.846	0.817 1.00 0.00
ATOM 112	28 CB	ALA A	79 155.864	-0.916	3.519 1.00 0.00
ATOM 112	29 H	ALA A	79 156.028	-3.779	3.040 1.00 0.00
ATOM 113	30 HA	ALA A	79 153.924	-1.772	3.425 1.00 0.00
ATOM 113	31 1HB	ALA A	79 156.388	-1.279	4.391 1.00 0.00
ATOM 113	32 2HB	ALA A	79 155.310	-0.026	3.776 1.00 0.00
ATOM 113	33 3HB	ALA A	79 156.578	-0.684	2.741 1.00 0.00
ATOM 113	34 N	LEU A	80 153.612	-2.077	0.970 1.00 0.00
ATOM 113	35 CA	LEU A	80 153.402	-2.069	-0.473 1.00 0.00
ATOM 113	36 C	LEU A	80 152.484	-0.924	-0.884 1.00 0.00
ATOM 113	37 0	LEU A	80 151.354	-0.818	-0.407 1.00 0.00
ATOM 113	38 CB	LEU A	80 152.808	-3.404	-0.928 1.00 0.00

ATOM	1139	CG	LEU 'A	80	152.489	-3.494	-2.422	1.00	0.00
ATOM	1140	CD1	LEU A	80	153.744	-3.825	-3.216	1.00	0.00
ATOM	1141	CD2	LEU A	80	151.407	-4.534	-2.673	1.00	0.00
ATOM	1142	Н	LEU A	80	152.839	-2.167	1.566	1.00	0.00
ATOM	1143	HA	LEU A	80	154.362	-1.934	-0.947	1.00	0.00
ATOM	1144	1HB	LEU A	80	153.508	-4.189	-0.682	1.00	0.00
ATOM	1145	2HB	LEU A	80	151.894	-3.573	-0.378	1.00	0.00
ATOM	1146	HG	LEU A	80	152. 122	-2.537	-2.764	1.00	0.00
ATOM	1147	1HD1	LEU A	80	153.968	-4.877	-3.113	1.00	0.00
ATOM	1148	2HD1	LEU A	80	154.572	-3.243	-2.839	1.00	0.00
ATOM	1149	3HD1	LEU A	80	153.582	-3.590	-4.257	1.00	0.00
ATOM	1150	1HD2	LEU A	80	150.440	-4.054	-2.672	1.00	0.00
ATOM	1151	2HD2	LEU A	80	151.440	-5.282	-1.895	1.00	0.00
ATOM	1152	3HD2	LEU A	80	151.575	-5.003	-3.631	1.00	0.00
ATOM	1153	N	PHE A	81	152.977	-0.065	-1.770	1.00	0.00
ATOM	1154	CA	PHE A	81	152.201	1.074	-2.245	1.00	0.00
ATOM	1155	С	PHE A	81	151.396	0.705	-3.487	1.00	0.00
ATOM	1156	0	PHE A	81	151.813	-0.141	-4.280	1.00	0.00
ATOM	1157	CB	PHE A	81	153.123	2.254	-2.554	1.00	0.00
ATOM	1158	CG	PHE A	81	153.759	2.855	-1.332	1.00	0.00
ATOM	1159	CD1	PHE A	81	153.219	3.986	-0.740	1.00	0.00
ATOM	1160	CD2	PHE A	81	154.894	2.288	-0.775	1.00	0.00
ATOM	1161	CE1	PHE A	81	153.801	4.540	0.385	1.00	0.00
ATOM	1162	CE2	PHE A	81	155.479	2.838	0.349	1.00	0.00
ATOM	1163	CZ	PHE A	81	154.932	3.966	0.930	1.00	0.00
ATOM	1164	Н	PHE A	81	153.885	-0.201	-2.114	1.00	0.00
ATOM	1165	HA	PHE A	81	151.517	1.359	-1.460	1.00	0.00
ATOM	1166	1HB	PHE A	81	153.914	1.922	-3.209	1.00	0.00
ATOM	1167	2HB	PHE A	81	1 152.554	3.027	-3.048	1.00	0.00

ATOM	1168	HD1	PHE A	8	1	152.335	4.436	-1.166	1.00	0.00
ATOM	1169	HD2	PHE A	8.	1	155.323	1.406	-1.228	1.00	0.00
ATOM	1170	HE1	PHE A	8	1	153.371	5.423	0.835	1.00	0.00
ATOM	1171	HE2	PHE A	8	1	156.364	2.387	0.773	1.00	0.00
ATOM	1172	HZ	PHE A	8	1	155.389	4.398	1.808	1.00	0.00
ATOM	1173	N	VAL A	8	2	150.242	1.343	-3.650	1.00	0.00
ATOM	1174	CA	VAL A	8 A	2	149.380	1.081	-4.796	1.00	0.00
ATOM	1175	C	VAL A	8 A	2	148.465	2.268	-5.077	1.00	0.00
ATOM	1176	0	VAL A	A 8	2	148.334	3.174	-4.253	1.00	0.00
ATOM	1177	CB	VAL A	A 8	2	148.517	-0.175	-4.574	1.00	0.00
ATOM	1178	CG1	VAL A	A 8	2	149.388	-1.419	-4.519	1.00	0.00
ATOM	1179	CG2	VAL A	A 8	2	147.691	-0.038	-3.304	1.00	0.00
ATOM	1180	H	VAL A	A 8	2	149.965	2.006	-2.984	1.00	0.00
ATOM	1181	HA	VAL .	A 8	2	150.010	0.912	-5.656	1.00	0.00
ATOM	1182	HB	VAL .	A 8	2	147.839	-0.273	-5.409	1.00	0.00
ATOM	1183	1HG1	VAL .	A 8	32	150.172	-1.344	-5.260	1.00	0.00
ATOM	1184	2HG1	VAL .	A 8	32	148.784	-2.291	-4.723	1.00	0.00
ATOM	1185	3HG1	VAL	A 8	32	149.829	-1.508	-3.538	1.00	0.00
ATOM	1186	1HG2	VAL	A 8	32	146.737	-0.526	-3.441	1.00	0.00
ATOM	1187	2HG2	VAL	A 8	32	147.531	1.009	-3.090	1.00	0.00
ATOM	1188	3HG2	VAL	A 8	32	148.217	-0.497	-2.480	1.00	0.00
ATOM	1189	N	LYS	A 8	33	147.834	2.257	-6.247	1.00	0.00
ATOM	1190	CA	LYS	A 8	33	146.931	3.333	-6.639	1.00	0.00
ATOM	1191	С	LYS	A 8	33	145.672	3.327	-5.778	1.00	0.00
ATOM	1192	0	LYS	A 8	33	144.950	2.332	-5.724	1.00	0.00
ATOM	1193	CB	LYS	A 8	33	146.554	3.198	-8.116	1.00	0.00
ATOM	1194	CG	LYS	A 8	33	3 147.716	3.442	-9.064	1.00	0.00
ATOM	1195	CD	LYS	A S	83	3 147.351	3.082	-10.495	1.00	0.00
ATOM	1196	CE	LYS	A S	83	3 147.951	4.066	-11.487	1.00	0.00

ATOM	1197	NZ	LYS A	83 148.395	3.393 -	12.739	1.00 0.00
ATOM	1198	Н	LYS A	83 147.979	1.508	-6.862	1.00 0.00
ATOM	1199	HA	LYS A	83 147.446	4.270	-6.492	1.00 0.00
ATOM	1200	1HB	LYS A	83 146.178	2.201	-8.289	1.00 0.00
ATOM	1201	2HB	LYS A	83 145.776	3.912	-8.343	1.00 0.00
ATOM	1202	1HG	LYS A	83 147.988	4.486	-9.024	1.00 0.00
ATOM	1203	2HG	LYS A	83 148.555	2.837	-8.753	1.00 0.00
ATOM	1204	1HD	LYS A	83 147.725	2.094 -	-10.715	1.00 0.00
ATOM	1205	2HD	LYS A	83 146.276	3.093 -	-10.596	1.00 0.00
ATOM	1206	1HE	LYS A	83 147.206	4.809	-11.733	1.00 0.00
MOTA	1207	2HE	LYS A	83 148.800	4.549 -	-11.027	1.00 0.00
MOTA	1208	1HZ	LYS A	83 148.832	2.476	-12.515	1.00 0.00
ATOM	1209	2HZ	LYS A	83 149.090	3.984	-13. 235	1.00 0.00
ATOM	1210	3HZ	LYS A	83 147.580	3.233	-13.366	1.00 0.00
ATOM	1211	N	LEU A	84 145.417	4.445	-5.109	1.00 0.00
ATOM	1212	CA	LEU A	84 144.246	4.573	-4.250	1.00 0.00
ATOM	1213	C	LEU A	84 142.961	4.378	-5.049	1.00 0.00
ATOM	1214	0	LEU A	84 141.971	3.858	-4.535	1.00 0.00
ATOM	1215	CB	LEU A	84 144.237	5.944	-3.571	1.00 0.00
ATOM	1216	CG	LEU A	84 142.996	6.246	-2.730	1.00 0.00
ATOM	1217	CD1	LEU A	84 143.069	5.526	-1.392	1.00 0.00
ATOM	1218	CD2	LEU A	84 142.846	7.745	-2.522	1.00 0.00
MOTA	1219	Н	LEU A	84 146.031	5.204	-5.195	1.00 0.00
ATOM	1220	HA	LEU A	84 144.305	3.805	-3.493	1.00 0.00
ATOM	1221	1HB	LEU A	84 145.105	6.008	-2.929	1.00 0.00
ATOM	1222	2HB	LEU A	84 144.320	6.701	-4.335	1.00 0.00
ATOM	1223	HG	LEU A	84 142.120	5.890	-3.253	1.00 0.00
ATOM	1224	1HD1	LEU A	84 143.969	5.817	-0.874	1.00 0.00
ATOM	1225	2HD1	LEU A	84 143.079	4.458	-1.559	1.00 0.00

ATOM	1226	3HD1	LEU	A	84	142.208	5.788	-0.795	1.00	0.00
ATOM	1227	1HD2	LEU	A	84	143.594	8.088	-1.824	1.00	0.00
ATOM	1228	2HD2	LEU	A	84	141.862	7.959	-2.130	1.00	0.00
ATOM	1229	3HD2	LEU	A	84	142.974	8.254	-3.466	1.00	0.00
ATOM	1230	N	LYS	A	85	142.985	4.799	-6.310	1.00	0.00
ATOM	1231	CA	LYS	A	85	141.821	4.669	-7.179	1.00	0.00
ATOM	1232	C	LYS	A	85	141.476	3.201	-7.415	1.00	0.00
ATOM	1233	0	LYS	A	85	140.323	2.860	-7.676	1.00	0.00
ATOM	1234	CB	LYS	A	85	142.078	5.366	-8.517	1.00	0.00
ATOM	1235	CG	LYS	A	85	143.400	4.979	-9.161	1.00	0.00
ATOM	1236	CD	LYS	A	85	144.399	6.124	-9.118	1.00	0.00
ATOM	1237	CE	LYS	A	85	144.251	7.037	-10.325	1.00	0.00
ATOM	1238	NZ	LYS	A	85	144.698	8.426	-10.028	1.00	0.00
ATOM	1239	Н	LYS	A	85	143.802	5.205	-6.663	1.00	0.00
ATOM	1240	HA	LYS	A	85	140.987	5.149	-6.689	1.00	0.00
ATOM	1241	1HB	LYS	A	85	141.281	5.111	-9.201	1.00	0.00
ATOM	1242	2HB	LYS	A	85	142.077	6.434	-8.360	1.00	0.00
ATOM	1243	1HG	LYS	A	85	143.814	4.134	-8.631	1.00	0.00
ATOM	1244	2HG	LYS	A	85	143.222	4.706	-10.191	1.00	0.00
ATOM	1245	1HD	LYS	A	85	144.235	6.700	-8.221	1.00	0.00
ATOM	1246	2HD	LYS	A	85	145.399	5.715	-9.109	1.00	0.00
ATOM	1247	1HE	LYS	A	85	144.847	6.643	-11.134	1.00	0.00
ATOM	1248	2HE	LYS	A	85	143.212	7.057	-10.619	1.00	0.00
ATOM	1249	1HZ	LYS	A	85	144.700	8.995	-10.899	1.00	0.00
ATOM	1250	2HZ	LYS	A	85	145.659	8.416	-9.632	1.00	0.00
ATOM	1251	3HZ	LYS	A	85	144.056	8.868	-9.338	1.00	0.00
ATOM	1252	N	SER	A	86	142.483	2.338	-7.322	1.00	0.00
ATOM	1253	CA	SER	A	86	142.283	0.908	-7.525	1.00	0.00
ATOM	1254	С	SER	A	86	142.180	0.177	-6.191	1.00	0.00

ATOM :	1255	0	SER A	86 142	.582 -0.981	-6.073	1.00 0.00
ATOM :	1256	CB	SER A	86 143	. 430 0. 324	-8.352	1.00 0.00
ATOM	1257	OG	SER A	86 143	. 578 1. 016	-9.581	1.00 0.00
ATOM	1258	Н	SER A	86 143	. 380 2. 669	-7.111	1.00 0.00
ATOM	1259	HA	SER A	86 141	.358 0.777	-8.067	1.00 0.00
ATOM	1260	1HB	SER A	86 144	.351 0.407	-7.794	1.00 0.00
ATOM	1261	2HB	SER A	86 143	. 228 -0. 716	-8.561	1.00 0.00
ATOM	1262	HG	SER A	86 142	2.715 1.148	-9.979	1.00 0.00
ATOM	1263	N	CYS A	87 141	.639 0.860	-5.188	1.00 0.00
ATOM	1264	CA	CYS A	87 141	.482 0.275	-3.861	1.00 0.00
ATOM	1265	C	CYS A	87 140	0.008 0.152	-3.491	1.00 0.00
ATOM	1266	0	CYS A	87 139	0.819	-4.073	1.00 0.00
ATOM	1267	СВ	CYS A	87 142	2.211 1.124	-2.818	1.00 0.00
ATOM	1268	SG	CYS A	87 143	3.995 0.839	-2.751	1.00 0.00
ATOM	1269	Н	CYS A	87 14	1.337 1.779	-5.343	1.00 0.00
ATOM	1270	HA	CYS A	87 14	1.920 -0.712	-3.878	1.00 0.00
ATOM	1271	1HB	CYS A	87 142	2.055 2.168	-3.041	1.00 0.00
ATOM	1272	2HB	CYS A	87 14	1.806 0.906	-1.840	1.00 0.00
ATOM	1273	HG	CYS A	87 14	4.366 1.082	-3.603	1.00 0.00
ATOM	1274	N	ARG A	88 13	9.715 -0.707	-2.519	1.00 0.00
ATOM	1275	CA	ARG A	88 13	8.344 -0.918	3 -2.072	1.00 0.00
ATOM	1276	С	ARG A	88 13	8.274 -0.998	3 -0.547	1.00 0.00
ATOM	1277	0	ARG A	88 13	9.152 -1.577	0.091	1.00 0.00
ATOM	1278	СВ	ARG A	88 13	37.777 -2.198	3 –2.689	1.00 0.00
ATOM	1279	CG	ARG A	88 13	86.918 -1.95	2 -3.918	1.00 0.00
ATOM	1280	CD	ARG A	88 13	35.437 -1.95	7 -3.574	1.00 0.00
ATOM	I 1281	NE	ARG A	. 88 13	34.598 –2.03	3 -4.768	3 1.00 0.00
ATOM	1282	cz cz	ARG A	. 88 13	33.279 –2.22	0 -4.736	5 1.00 0.00
ATON	1 1283	NH1	ARG A	88 13	32.649 –2.35	1 -3.576	3 1.00 0.00

ATOM 100	A MITTO	ADC A	00 120 502	2 276	r oco 1	00 0 00
ATOM 128			88 132.592			
ATOM 128			88 140.440			
ATOM 128	6 HA	ARG A	88 137.756			
ATOM 128	7 1HB	ARG A	88 138.597	-2.841	-2.972 1.	00 0.00
ATOM 128	8 2HB	ARG A	88 137.173	-2.705	-1.950 1.	00 0.00
ATOM 128	9 1HG	ARG A	88 137.176	-0.992	-4.340 1.	00 0.00
ATOM 129	0 2HG	ARG A	88 137.113	-2.730	-4.642 1.	00 0.00
ATOM 129	1 1HD	ARG A	88 135.230	-2.810	-2.946 1.	00 0.00
ATOM 129	2 2HD	ARG A	88 135.203	-1.050	-3.037 1.	00 0.00
ATOM 129	3 HE	ARG A	88 135.038	-1.938	-5.638 1.	00 0.00
ATOM 129)4 1HH1	ARG A	88 133.161	-2.310	-2.719 1.	00 0.00
ATOM 129	95 2HH1	ARG A	88 131.658	-2.491	-3.559 1.	00 0.00
ATOM 129	6 1HH2	ARG A	88 133.062	-2.176	-6.745 1.	00 0.00
ATOM 129	97 2HH2	2 ARG A	88 131.601	-2.416	-5.845 1.	00 0.00
ATOM 129	98 N	PRO A	89 137.224	-0.415	0.060 1.	00 0.00
ATOM 129	99 CA	PRO A	89 137.049	-0.428	1.516 1.	.00 0.00
ATOM 130	00 C	PRO A	89 137.081	-1.842	2.089 1.	.00 0.00
ATOM 130	01 0	PRO A	89 136.463	-2.756	1.545 1.	.00 0.00
ATOM 130	02 CB	PRO A	89 135.666	0.197	1.720 1	.00 0.00
ATOM 130	03 CG	PRO A	89 135.435	1.020	0.501 1	.00 0.00
ATOM 13	04 CD	PRO A	89 136.128	0.299	-0.621 1	.00 0.00
ATOM 13	05 HA	PRO A	89 137.797	0.175	2.009 1	.00 0.00
ATOM 13	06 1HB	PRO A	89 134.926	-0.584	1.817 1	.00 0.00
ATOM 13	07 2HB	PRO A	89 135.672	0.807	2.612 1	.00 0.00
ATOM 13	08 1HG	PRO A	89 134.376	1.093	0.303 1	.00 0.00
ATOM 13	09 2HG	PRO A	89 135.862	2.003	0.634 1	.00 0.00
ATOM 13	10 1HD	PRO A	89 135.452	-0.396	-1.098 1	.00 0.00
ATOM 13	11 2HD	PRO A	89 136.516	1.005	-1.340 1	.00 0.00
ATOM 13	12 N	ASP A	90 137.806	-2.014	3.189 1	.00 0.00

ATOM	1313	CA	ASP A	90 137.917	-3.316	3.835 1.00 0.00
ATOM	1314	С	ASP A	90 136.972	-3.412	5.029 1.00 0.00
ATOM	1315	0	ASP A	90 137.077	-2.637	5.980 1.00 0.00
ATOM	1316	CB	ASP A	90 139.356	-3.565	4.287 1.00 0.00
ATOM	1317	CG	ASP A	90 139.717	-5.038	4.282 1.00 0.00
ATOM	1318	OD1	ASP A	90 140.547	-5.448	5.120 1.00 0.00
ATOM	1319	OD2	ASP A	90 139.169.	-5.780	3.441 1.00 0.00
ATOM	1320	Н	ASP A	90 138.276	-1.246	3.577 1.00 0.00
ATOM	1321	HA	ASP A	90 137.640	-4.068	3.111 1.00 0.00
ATOM	1322	1HB	ASP A	90 140.030	-3.047	3.622 1.00 0.00
ATOM	1323	2HB	ASP A	90 139.482	-3.185	5.290 1.00 0.00
ATOM	1324	N	SER A	91 136.050	-4.367	4.972 1.00 0.00
ATOM	1325	CA	SER A	91 135.087	-4.563	6.049 1.00 0.00
ATOM	1326	C	SER A	91 135.527	-5.694	6.974 1.00 0.00
ATOM	1327	0	SER A	91 134.698	-6.422	7.519 1.00 0.00
ATOM	1328	CB	SER A	91 133.703	-4.870	5.475 1.00 0.00
ATOM	1329	OG	SER A	91 132.679	-4.405	6.337 1.00 0.00
ATOM	1330	Н	SER A	91 136.017	-4.954	4.188 1.00 0.00
ATOM	1331	HA	SER A	91 135.037	-3.649	6.618 1.00 0.00
ATOM	1332	1HB	SER A	91 133.597	-4.383	4.517 1.00 0.00
ATOM	1333	2HB	SER A	91 133.595	-5.937	5.350 1.00 0.00
ATOM	1334	HG	SER A	91 131.982	-5.063	6.390 1.00 0.00
ATOM	1335	N	ARG A	92 136.837	-5.835	7.146 1.00 0.00
ATOM	1336	CA	ARG A	92 137.387	-6.876	8.006 1.00 0.00
ATOM	1337	С	ARG A	92 137.020	-6.628	9.465 1.00 0.00
ATOM	1338	0	ARG A	92 136.878	-7.568	10.247 1.00 0.00
ATOM	1339	CB	ARG A	92 138.909	-6.940	7.854 1.00 0.00
ATOM	1340	CG	ARG A	92 139.365	-7.676	6.605 1.00 0.00
ATOM	1341	CD	ARG A	92 139.163	-9.177	6.737 1.00 0.00

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ATOM	_	NE	ARG	A			-9.631			
ATOM	1343	CZ	ARG	A	92	137.717	-10.903	5.736		
ATOM	1344	NH1	ARG	A	92	138.590	-11.850	6.059	1.00	0.00
ATOM	1345	NH2	ARG	A	92	136.599	-11.230	5.103	1.00	0.00
ATOM	1346	Н	ARG	A	92	137.449	-5.222	6.686	1.00	0.00
ATOM	1347	HA	ARG	A	92	136.964	-7.819	7.695	1.00	0.00
ATOM	1348	1HB	ARG	A	92	139.298	-5.934	7.815	1.00	0.00
ATOM	1349	2HB	ARG	A	92	139.324	-7.444	8.715	1.00	0.00
ATOM	1350	1HG	ARG	A	92	138.794	-7.320	5.761	1.00	0.00
ATOM	1351	2HG	ARG	A	92	140.414	-7.475	6.444	1.00	0.00
ATOM	1352	1HD	ARG	A	92	140.021	-9.681	6.317	1.00	0.00
ATOM	1353	2HD	ARG	A	92	139.078	-9.426	7.785	1.00	0.00
ATOM	1354	HE	ARG	A	92	137. 299	-8.953	5.792	1.00	0.00
ATOM	1355	1HH1	ARG	A	92	139.436	-11.610	6.536	1.00	0.00
ATOM	1356	2HH1	ARG	A	92	138.402	-12.804	5.826	1.00	0.00
ATOM	1357	1HH2	ARG	A	92	135.937	-10.522	4.858	1.00	0.00
ATOM	1358	2HH2	ARG	A	92	136.416	-12.187	4.873	1.00	0.00
ATOM	1359	N	PHE	A	93	136.868	-5.358	9.825	1.00	0.00
ATOM	1360	CA	PHE	A	93	136.517	-4.988	11.192	1.00	0.00
ATOM	1361	c	PHE	A	93	135.373	-3.979	11.206	1.00	0.00
ATOM	1362	0	PHE	A	93	135.331	-3.085	12.051	1.00	0.00
ATOM	1363	CB	PHE	A	93	137.733	-4.406	11.914	1.00	0.00
ATOM	1364	CG	PHE	A	93	138.849	-5.395	12.101	1.00	0.00
ATOM	1365	CD1	PHE	A	93	139.524	-5.913	11.008	1.00	0.00
ATOM	1366	CD2	PHE	Α	93	139. 223	-5.804	13.372	1.00	0.00
ATOM	1367	CE1	PHE	Α	93	140.552	-6.822	11.178	1.00	0.00
ATOM	1368	CE2	PHE	Α	93	140. 248	-6.713	13.547	1.00	0.00
ATOM	1369	CZ	PHE	Α	93	140.913	-7.223	12.449	1.00	0.00
ATOM	1370	Н	PHE	A	93	136.994	-4.652	9.157	1.00	0.00

ATOM I	371	HA	PHE A	93 136.199	-5.882	11.705 1.00 0.00
ATOM 1	1372	1HB	PHE A	93 138.119	-3.576	11.342 1.00 0.00
ATOM 3	1373	2HB	PHE A	93 137.431	-4.056	12.889 1.00 0.00
ATOM I	1374	HD1	PHE A	93 139.242	-5.600	10.014 1.00 0.00
ATOM 3	1375	HD2	PHE A	93 138.702	-5.407	14.231 1.00 0.00
ATOM :	1376	HE1	PHE A	93 141.070	-7.219	10.317 1.00 0.00
ATOM :	1377	HE2	PHE A	93 140.529	-7.025	14.542 1.00 0.00
ATOM .	1378	HZ	PHE A	93 141.716	-7.934	12.584 1.00 0.00
ATOM	1379	N .	ALA A	94 134.446	-4.128	10.266 1.00 0.00
ATOM	1380	CA	ALA A	94 133.302	-3.230	10.171 1.00 0.00
ATOM	1381	С	ALA A	94 132.101	-3.789	10.924 1.00 0.00
MOTA	1382	0	ALA A	94 131.718	-4.944	10.733 1.00 0.00
ATOM	1383	CB	ALA A	94 132.944	-2.982	8.713 1.00 0.00
ATOM	1384	Н	ALA A	94 134.534	-4.860	9.620 1.00 0.00
ATOM	1385	HA	ALA A	94 133.583	-2.285	10.613 1.00 0.00
ATOM	1386	1HB	ALA A	94 132.185	-3.686	8.404 1.00 0.00
ATOM	1387	2HB	ALA A	94 133.824	-3.111	8.100 1.00 0.00
ATOM	1388	ЗНВ	ALA A	94 132.570	-1.976	8.600 1.00 0.00
ATOM	1389	N	SER A	95 131.509	-2.964	11.783 1.00 0.00·
ATOM	1390	CA	SER A	95 130.351	-3.376	12.566 1.00 0.00
ATOM	1391	С	SER A	95 129.056	-3.097	11.811 1.00 0.00
ATOM	1392	0	SER A	95 128.835	-1.988	11.325 1.00 0.00
ATOM	1393	CB	SER A	95 130.336	-2.652	13.913 1.00 0.00
ATOM	1394	OG	SER A	95 130.569	-1.263	13.749 1.00 0.00
ATOM	1395	H	SER A	95 131.861	-2.056	11.891 1.00 0.00
ATOM	1396	HA	SER A	95 130.430	-4.438	12.740 1.00 0.00
ATOM	1397	1HB	SER A	95 129.372	-2.788	14.382 1.00 0.00
ATOM	1398	2HB	SER A	95 131.107	-3.062	14.548 1.00 0.00
ATOM	1399	HG	SER A	95 129.901	-0.892	13.169 1.00 0.00

ATOM	1400	N	LEU A	96 1	28.201	-4.111	11.717 1.00 0.00	
ATOM	1401	CA	LEU A	96 1	26.927	-3.976	11.022 1.00 0.00	
ATOM	1402	С	LEU A	96 1	.25.985	-5.119	11.386 1.00 0.00	
ATOM	1403	0	LEU A	96 1	26.309	-6.290	11.190 1.00 0.00	
ATOM	1404	CB	LEU A	96 1	27.150	-3.939	9.507 1.00 0.00	
ATOM	1405	CG	LEU A	96 1	127.031	-2.553	8.870 1.00 0.00	
ATOM	1406	CD1	LEU A	96 1	127.658	-2.548	7.484 1.00 0.00	
ATOM	1407	CD2	LEU A	96 1	125.573	-2.123	8.800 1.00 0.00	
ATOM	1408	H	LEU A	96	128.433	-4.971	12.126 1.00 0.00	
ATOM	1409	HA	LEU A	96	126.478	-3.044	11.333 1.00 0.00	
ATOM	1410	1HB	LEU A	96	128.137	-4.324	9.301 1.00 0.00	
ATOM	1411	2HB	LEU A	96	126.424	-4.588	9.040 1.00 0.00	
ATOM	1412	HG	LEU A	96	127.563	-1.837	9.479 1.00 0.00	
ATOM	1413	1HD1	LEU A	96	127.346	-3.430	6.944 1.00 0.00	
ATOM	1414	2HD1	LEU A	96	128.733	-2.544	7.576 1.00 0.00	
ATOM	1415	3HD1	LEU A	96	127.339	-1.666	6.948 1.00 0.00	
ATOM	1416	1HD2	LEU A	96	124.961	-2.970	8.524 1.00 0.00	
ATOM	1417	2HD2	LEU A	96	125.463	-1.344	8.060 1.00 0.00	
ATOM	1418	3HD2	2 LEU A	96	125. 261	-1.752	9.764 1.00 0.00	
ATOM	1419	N	GLN A	97	124.818	-4.770	11.919 1.00 0.00	
ATOM	1420	CA	GLN A	97	123.829	-5.767	12.312 1.00 0.00	
ATOM	1421	С	GLN A	97	122.418	-5.307	11.952 1.00 0.00	
ATOM	1422	0	GLN A	97	121.781	-4.580	12.715 1.00 0.00	
ATOM	1423	CB	GLN A	97	123.920	-6.040	13.814 1.00 0.00	
ATOM	i 1424	CG	GLN A	97	124.007	-4.778	14.657 1.00 0.00	
ATON	1 1425	CD	GLN A	. 97	123.601	-5.011	16.100 1.00 0.00	
ATON	M 1426	OE1	GLN A	. 97	122.523	-4.598	16.527 1.00 0.00	
ATON	I 1427	NE2	GLN A	97	124.464	-5.675	16.858 1.00 0.00	
ATOM	M 1428	Н	GLN A	97	124.618	-3.821	12.052 1.00 0.00	

ATOM :	1429	HA	GLN A	97	124.047	-6.679	11.777	1.00	0.00
ATOM :	1430	1HB	GLN A	97	123.045	-6.593	14.122	1.00	0.00
ATOM	1431	2HB	GLN A	97	124.798	-6.637	14.007	1.00	0.00
MOTA	1432	1HG	GLN A	97	125.024	-4.418	14.640	1.00	0.00
MOTA	1433	2HG	GLN A	97	123.354	-4.030	14.231	1.00	0.00
ATOM	1434	1HE2	GLN A	97	125.305	-5.974	16.450	1.00	0.00
ATOM	1435	2HE2	GLN A	97	124.228	-5.840	17.794	1.00	0.00
ATOM	1436	N	PRO A	98	121.906	-5.725	10.780	1.00	0.00
ATOM	1437	CA	PRO A	98	120.563	-5.349	10.327	1.00	0.00
ATOM	1438	С	PRO A	98	119.501	-5.591	11.395	1.00	0.00
ATOM	1439	0	PRO A	98	118.481	-4.905	11.436	1.00	0.00
ATOM	1440	CB	PRO A	98	120.328	-6.262	9.121	1.00	0.00
ATOM	1441	CG	PRO A	98	121.691	-6.560	8.604	1.00	0.00
ATOM	1442	CD	PRO A	98	122.594	-6.595	9.805	1.00	0.00
ATOM	1443	HA	PRO A	98	120.526	-4.315	10.012	1.00	0.00
ATOM	1444	1HB	PRO A	98	3 119.819	-7.160	9.441	1.00	0.00
ATOM	1445	2HB	PRO A	98	3 119.730	-5.745	8.386	1.00	0.00
ATOM	1446	1HG	PRO A	98	3 121.692	-7.519	8.105	1.00	0.00
ATOM	1447	2HG	PRO A	98	3 122.004	-5.782	7.922	1.00	0.00
ATOM	1448	1HD	PRO A	98	3 122.681	-7.602	10.184	1.00	0.00
ATOM	1449	2HD	PRO A	98	3 123.568	-6.199	9.557	1.00	0.00
ATOM	1450	N	SER A	99	9 119.751	-6.571	12.257	1.00	0.00
ATOM	1451	CA	SER A	99	9 118.818	-6.903	13.328	1.00	0.00
ATOM	1452	С	SER A	9	9 119.407	-6.553	14.690	1.00	0.00
ATOM	1453	0	SER A	9	9 120.557	-6.884	14.983	1.00	0.00
ATOM	1454	CB	SER A	9	9 118.462	-8.390	13.279	1.00	0.00
ATOM	1455	OG	SER A	. 9	9 118.677	-8.924	11.984	1.00	0.00
ATOM	1456	Н	SER A	. 9	9 120.583	-7.081	12.174	1.00	0.00
ATOM	1457	HA	SER A	. 9	9 117.920	-6.322	13.178	1.00	0.00

ATOM :	1458	1HB	SER A	99	119.079	-8.929	13.983	1.00	0.00
ATOM	1459	2HB	SER A	99	117.422	-8.518	13.540	1.00	0.00
ATOM	1460	HG	SER A	99	119.277	-9.671	12.041	1.00	0.00
ATOM	1461	N	GLY A	100	118.614	-5.885	15.520	1.00	0.00
ATOM	1462	CA	GLY A	100	119.076	-5.501	16.842	1.00	0.00
ATOM	1463	C	GLY A	100	118.068	-5.831	17.927	1.00	0.00
ATOM	1464	0	GLY A	100	116.862	-5.824	17.680	1.00	0.00
ATOM	1465	Н	GLY A	100	117.707	-5.647	15.233	1.00	0.00
ATOM	1466	1HA	GLY A	100	119.999	-6.020	17.052	1.00	0.00
ATOM	1467	2HA	GLY A	100	119.262	-4.437	16.850	1.00	0.00
ATOM	1468	N	PRO A	101	118.536	-6.127	19.153	1.00	0.00
ATOM	1469	CA	PRO A	101	117.654	-6.460	20.276	1.00	0.00
ATOM	1470	C	PRO A	101	116.891	-5.245	20.792	1.00	0.00
ATOM	1471	0	PRO A	101	117.052	-4.840	21.944	1.00	0.00
ATOM	1472	CB	PRO A	101	118.620	-6.980	21.341	1.00	0.00
ATOM	1473	CG	PRO A	101	119.916	-6.311	21.034	1.00	0.00
ATOM	1474	CD	PRO A	101	119.960	-6.160	19.538	1.00	0.00
ATOM	1475	HA	PRO A	A 101	116.954	-7.238	20.010	1.00	0.00
ATOM	1476	1HB	PRO A	A 101	118.258	-6.710	22.322	1.00	0.00
ATOM	1477	2HB	PRO A	A 101	118.705	-8.054	21.263	1.00	0.00
ATOM	1478	1HG	PRO A	A 101	119.950	-5.343	21.511	1.00	0.00
ATOM	1479	2HG	PRO A	A 101	120.736	-6.926	21.373	1.00	0.00
ATOM	1480	1HD	PRO .	A 101	120.453	-5.238	19.267	1.00	0.00
ATOM	1481	2HD	PRO .	A 101	120.461	-7.003	19.088	1.00	0.00
ATOM	1482	N	SER .	A 102	2 116.057	-4.667	19.933	1.00	0.00
ATOM	1483	CA	SER .	A 102	2 115.268	-3.498	20.303	1.00	0.00
ATOM	1484	C	SER .	A 102	2 113.913	-3.913	20.867	1.00	0.00
MOTA	1485	0	SER	A 102	2 113.606	-3.648	22.030	1.00	0.00
ATOM	1486	CB	SER	A 102	2 115.071	-2.585	19.091	1.00	0.00

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SER A 102 114.531
                                   -1.334
                                            19.478 1.00 0.00
ATOM 1487
           OG.
                                   -5.036
                                            19.029 1.00 0.00
ATOM 1488
                SER A 102 115.971
           Н
                                            21.064 1.00 0.00
                SER A 102 115.812
                                   -2.959
ATOM 1489
           HA
                                            18.611 1.00 0.00
ATOM 1490
                                   -2.418
                SER A 102 116.024
           1HB
                                            18.394 1.00 0.00
                SER A 102 114.394
                                   -3.057
ATOM 1491
           2HB
                                            19.319 1.00 0.00
                SER A 102 115.179
                                    -0.642
ATOM 1492
           HG
                                   -4.563
                                            20.036 1.00 0.00
                SER A 103 113.105
ATOM 1493
           N
                                            20.452 1.00 0.00
                SER A 103 111.783
                                   -5.015
ATOM 1494
           CA
                                           19.527 1.00 0.00
                                   -6.112
           C
                SER A 103 111.266
ATOM 1495
                                   -6.290
                                            18.418 1.00 0.00
                SER A 103 111.769
ATOM 1496
           0
                                            20.466 1.00 0.00
                SER A 103 110.802
                                   -3.840
ATOM 1497
           CB
                SER A 103 111.343
                                            21.164 1.00 0.00
                                   -2.733
ATOM 1498
           0G
                                            19.121 1.00 0.00
                 SER A 103 113.407
ATOM 1499
           Η
                                    -4.745
                                            21.452 1.00 0.00
ATOM 1500
           HA
                 SER A 103 111.868
                                    -5.413
                                            19.452 1.00 0.00
ATOM 1501
           1HB
                 SER A 103 110.587
                                    -3.541
                 SER A 103 109.887
                                    -4.146
                                            20.952 1.00 0.00
ATOM 1502
           2HB
                                            22.014 1.00 0.00
ATOM 1503
           HG
                 SER A 103 111.681
                                    -3.022
                                             19.992 1.00 0.00
 ATOM 1504
                 GLY A 104 110.261
                                    -6.846
            N
                 GLY A 104 109.694
                                             19.194 1.00 0.00
 ATOM 1505
            CA
                                     -7.916
                                             19.712 1.00 0.00
                 GLY A 104 108.344
                                     -8.374
 ATOM 1506
            C
                 GLY A 104 108.159
                                     -9.597
                                             19.890 1.00 0.00
 ATOM 1507
            0
                                    -7.510
                                             19.941 1.00 0.00
 ATOM 1508
            OXT
                 GLY A 104 107.472
                 GLY A 104 109.901
                                     -6.658
                                             20.885 1.00 0.00
 ATOM 1509
            H
            1HA
                 GLY A 104 109.578
                                     -7.571
                                             18.178 1.00 0.00
 ATOM 1510
                 GLY A 104 110.373 -8.756
                                             19.203 1.00 0.00
 ATOM 1511
            2HA
 TER 1512
                 GLY A 104
 ENDMDL
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[0103]

立体構造座標表6

ATOM 1	N	GLY A	1 112.318	9.750	-2.270 1.00 0.00
ATOM 2	CA	GLY A	1 111.240	9.201	-3.139 1.00 0.00
ATOM 3	С	GLY A	1 110.691	7.886	-2.623 1.00 0.00
ATOM 4	0	GLY A	1 109.480	7.663	-2.635 1.00 0.00
ATOM 5	1H	GLY A	1 113.178	9.172	-2.358 1.00 0.00
ATOM 6	2H	GLY A	1 112.012	9.746	-1.276 1.00 0.00
ATOM 7	ЗН	GLY A	1 112.539	10.727	-2.549 1.00 0.00
ATOM 8	1HA	GLY A	1 110.435	9.918	-3.192 1.00 0.00
ATOM 9	2HA	GLY A	1 111.637	9.047	-4.132 1.00 0.00
ATOM 10	N	SER A	2 111.584	7.013	-2.167 1.00 0.00
ATOM 11	CA	SER A	2 111.182	5.712	-1.643 1.00 0.00
ATOM 12	С	SER A	2 112.008	5.342	-0.415 1.00 0.00
ATOM 13	0	SER A	2 111.463	4.944	0.615 1.00 0.00
ATOM 14	CB	SER A	2 111.337	4.636	-2.718 1.00 0.00
ATOM 15	OG	SER A	2 110.409	4.831	-3.772 1.00 0.00
ATOM 16	H	SER A	2 112.534	7.249	-2.182 1.00 0.00
ATOM 17	HA	SER A	2 110.143	5.776	-1.357 1.00 0.00
ATOM 18	1HB	SER A	2 112.337	4.677	-3.125 1.00 0.00
ATOM 19	2HB	SER A	2 111.166	3.664	-2.280 1.00 0.00
ATOM 20	HG	SER A	2 109.545	5.031	-3.405 1.00 0.00
ATOM 21	N	SER A	3 113.325	5.477	-0.531 1.00 0.00
ATOM 22	CA	SER A	3 114.226	5. 157	0.571 1.00 0.00
ATOM 23	С	SER A	3 114.354	6.336	1.530 1.00 0.00
ATOM 24	0	SER A	3 114.036	6.223	2.713 1.00 0.00
ATOM 25	CB	SER A	3 115.604	4.770	0.033 1.00 0.00
ATOM 26	OG	SER A	3 116.188	5.838	-0.692 1.00 0.00
ATOM 27	H	SER A	3 113.700	5.799	-1.377 1.00 0.00
ATOM 28	HA	SER A	3 113.809	4.316	1.105 1.00 0.00

ATOM 29	1HB	SER A	3 116.252	4.515	0.859 1.00 0.00
ATOM 30	2HB	SER A	3 115.506	3.917	-0.623 1.00 0.00
ATOM 31	HG	SER A	3 117.117	5.913	-0.460 1.00 0.00
ATOM 32	N	GLY A	4 114.820	7.466	1.009 1.00 0.00
ATOM 33	CA	GLY A	4 114.983	8.649	1.833 1.00 0.00
ATOM 34	C	GLY A	4 116.174	8.550	2.765 1.00 0.00
ATOM 35	0	GLY A	4 116.069	8.004	3.863 1.00 0.00
ATOM 36	Н	GLY A	4 115.058	7.497	0.060 1.00 0.00
ATOM 37	1HA	GLY A	4 115.113	9.507	1.190 1.00 0.00
ATOM 38	2HA	GLY A	4 114.089	8.787	2.424 1.00 0.00
ATOM 39	N	SER A	5 117.312	9.078	2.326 1.00 0.00
ATOM 40	CA	SER A	5 118.529	9.046	3.127 1.00 0.00
ATOM 41	С	SER A	5 119.241	10.395	3.092 1.00 0.00
ATOM 42	0	SER A	5 119.252	11.074	2.066 1.00 0.00
ATOM 43	CB	SER A	5 119.468	7.948	2.623 1.00 0.00
ATOM 44	OG	SER A	5 119.748	8.109	1.244 1.00 0.00
ATOM 45	Н	SER A	5 117.334	9.500	1.441 1.00 0.00
ATOM 46	HA	SER A	5 118.249	8.827	4.147 1.00 0.00
ATOM 47	1HB	SER A	5 120.397	7.991	3.173 1.00 0.00
ATOM 48	2HB	SER A	5 119.006	6.984	2.774 1.00 0.00
ATOM 49	HG	SER A	5 120.660	7.865	1.070 1.00 0.00
ATOM 50	N	SER A	6 119.832	10.776	4.219 1.00 0.00
ATOM 51	CA	SER A	6 120.546	12.044	4.317 1.00 0.00
ATOM 52	С	SER A	6 121.965	11.832	4.834 1.00 0.00
ATOM 53	0	SER A	6 122.531	12.701	5.498 1.00 0.00
ATOM 54	CB	SER A	6 119.794	13.006	5.238 1.00 0.00
ATOM 55	OG	SER A	6 118.457	13.187	4.805 1.00 0.00
ATOM 56	H	SER A	6 119.789	10.190	5.003 1.00 0.00
ATOM 57	HA	SER A	6 120.597	12.473	3.327 1.00 0.00

ATOM	58	1HB	SER A	.6	119.782	12.606	6.240 1.00 0.00	
ATOM	59	2HB	SER A	6	120.292	13.964	5.238 1.00 0.00	
ATOM	60	HG	SER A	6	118.443	13.319	3.854 1.00 0.00	
ATOM	61	N	GLY A	7	122.535	10.671	4.527 1.00 0.00	
ATOM	62	CA	GLY A	7	123.883	10.367	4.969 1.00 0.00	
ATOM	63	С	GLY A	7	124.017	8.950	5.488 1.00 0.00	
ATOM	64	0	GLY A	7	123.400	8.587	6.490 1.00 0.00	
ATOM	65	H	GLY A	7	122.036	10.016	3.995 1.00 0.00	
ATOM	66	1HA	GLY A	7	124.561	10.500	4.139 1.00 0.00	
ATOM	67	2HA	GLY A	7	124.155	11.054	5.756 1.00 0.00	
ATOM	68	N	LEU A	8	124.825	8.144	4.805 1.00 0.00	
ATOM	69	CA	LEU A	8	125.038	6.758	5.203 1.00 0.00	
ATOM	70	С	LEU A	8	126.306	6.621	6.038 1.00 0.00	ı
ATOM	71	0	LEU A	8	126.247	6.510	7.263 1.00 0.00	l
ATOM	72	CB	LEU A	8	125.123	5.858	3.969 1.00 0.00)
ATOM	73	CG	LEU A	8	123.782	5.319	3.467 1.00 0.00)
ATOM	74	CD1	LEU A	8	123.953	4.629	2.123 1.00 0.00)
ATOM	7 5	CD2	LEU A	8	123.178	4.364	4.486 1.00 0.00)
ATOM	76	Н	LEU A	8	125.289	8.492	4.014 1.00 0.00)
ATOM	77	HA	LEU A	8	124. 196	6.453	5.801 1.00 0.00)
ATOM	78	1HB	LEU A	8	125.583	6.421	3.169 1.00 0.00)
ATOM	79	2HB	LEU A	8	125.757	5.017	4.205 1.00 0.00)
ATOM	80	HG	LEU A	8	123.097	6.144	3.333 1.00 0.00)
ATOM	81	1HD1	LEU A	8	123.170	3.896	1.992 1.00 0.00)
ATOM	82	2HD1	LEU A	8	124.915	4.140	2.089 1.00 0.00)
ATOM	83	3HD1	LEU A	8	123.893	5.362	1.331 1.00 0.00)
ATOM	84	1HD2	LEU A	8	123.006	4.890	5.414 1.00 0.00)
ATOM	85	2HD2	LEU A	8	123.859	3.544	4.658 1.00 0.00)
ATOM	86	3HD2	LEU A	. 8	122.241	3.982	4.110 1.00 0.00)

ATOM 8	7 N	ALA	A 9	127.450	6.628	5.367	1.00	0.00
ATOM 8	8 C	A ALA	A 9	128.735	6.505	6.044	1.00	0.00
ATOM 8	9 C	ALA	A 9	129.891	6.773	5.085	1.00	0.00
ATOM 9	0 0	ALA	A 9	130.601	5.854	4.679	1.00	0.00
ATOM 9	1 C	B ALA	A 9	128.872	5.123	6.665	1.00	0.00
ATOM 9	2 H	ALA	A 9	127.429	6.720	4.392	1.00	0.00
ATOM 9	3 H	A ALA	A 9	128.764	7.235	6.839	1.00	0.00
ATOM 9	4 1	HB ALA	A 9	127.891	4.724	6.876	1.00	0.00
ATOM 9	5 2	HB ALA	A A 9	129.436	5.195	7.583	1.00	0.00
ATOM 9	6 3	HB ALA	A A 9	129.387	4.468	5.978	1.00	0.00
ATOM 9	97 N	MET	r A 10	130.074	8.041	4.727	1.00	0.00
ATOM 9	98 C	A MET	r A 10	131.144	8.429	3.816	1.00	0.00
ATOM 9	99 C	ME'	ГА 10	131.191	9.946	3.646	1.00	0.00
ATOM 1	100 0	ME'	r A 10	130.954	10.465	2.554	1.00	0.00
ATOM 1	101 C	B ME	ГА 10	130.955	7.754	2.457	1.00	0.00
ATOM 1	102 0	G ME	ГА 10	129.539	7.863	1.913	1.00	0.00
ATOM 1	103 S	SD ME	ГА 10	129.407	9.023	0.539	1.00	0.00
ATOM J	104 0	E ME	r A 10	129.163	7.897	-0.833	1.00	0.00
ATOM 1	105 E	I ME	ГА 10	129.476	8.729	5.084	1.00	0.00
ATOM I	106 H	IA ME	T A 10	132.078	8.099	4.245	1.00	0.00
ATOM 3	107 1	HB ME	T A 10	131.628	8.210	1.746	1.00	0.00
ATOM :	108 2	ZHB ME	T A 10	131.202	6.707	2.551	1.00	0.00
ATOM :	109 1	IHG ME	T A 10	129.223	6.888	1.573	1.00	0.00
ATOM :	110 2	ZHG ME	T A 10	128.887	8.193	2.709	1.00	0.00
ATOM :	111 1	LHE ME	T A 10	130.124	7.587	-1.218	1.00	0.00
ATOM :	112 2	ZHE ME	T A 10	128.607	8.395	-1.613	1.00	0.00
ATOM :	113 3	SHE ME	T A 10	128.615	7.031	-0.494	1.00	0.00
ATOM	114 N	N PR	O A 1	131.502	10.682	4.727	1.00	0.00
ATOM	115 (CA PR	O A 1	131.579	12.145	4.688	1.00	0.00

ATOM 116	С	PRO A	11 132.593	12.645	3.660 1.00 0.00
ATOM 117	0	PRO A	11 132.293	13.544	2.875 1.00 0.00
ATOM 118	CB	PRO A	11 132.019	12.534	6.104 1.00 0.00
ATOM 119	CG	PRO A	11 131.698	11.352	6.955 1.00 0.00
ATOM 120	CD	PRO A	11 131.801	10.145	6.065 1.00 0.00
ATOM 121	HA	PRO A	11 130.615	12.582	4.476 1.00 0.00
ATOM 122	1HB	PRO A	11 133.076	12.749	6.109 1.00 0.00
ATOM 123	2HB	PRO A	11 131.469	13.407	6.424 1.00 0.00
ATOM 124	1HG	PRO A	11 132.411	11.280	7.761 1.00 0.00
ATOM 125	2HG	PRO A	11 130.696	11.444	7.348 1.00 0.00
ATOM 126	1HD	PRO A	11 132.798	9.733	6.102 1.00 0.00
ATOM 127	2HD	PRO A	11 131.072	9.402	6.353 1.00 0.00
ATOM 128	N	PRO A	12 133.809	12.066	3.642 1.00 0.00
ATOM 129	CA	PRO A	12 134.853	12.465	2.692 1.00 0.00
ATOM 130	С	PRO A	12 134.377	12.375	1.247 1.00 0.00
ATOM 131	0	PRO A	12 134.926	13.028	0.359 1.00 0.00
ATOM 132	СВ	PRO A	12 135.981	11.461	2.945 1.00 0.00
ATOM 133	CG	PRO A	12 135.751	10.969	4.331 1.00 0.00
ATOM 134	CD	PRO A	12 134.262	10.980	4.532 1.00 0.00
ATOM 135	HA	PRO A	12 135.206	13.467	2.892 1.00 0.00
ATOM 136	1HB	PRO A	12 135.918	10.658	2.225 1.00 0.00
ATOM 137	2HB	PRO A	12 136.935	11.957	2.856 1.00 0.00
ATOM 138	1HG	PRO A	12 136.135	9.965	4.434 1.00 0.00
ATOM 139	2HG	PRO A	12 136.229	11.629	5.040 1.00 0.00
ATOM 140	1HD	PRO A	12 133.834	10.034	4.236 1.00 0.00
ATOM 141	2HD	PRO A	12 134.023	11.198	5.561 1.00 0.00
ATOM 142	N	GLY A	13 133.351	11.559	1.017 1.00 0.00
ATOM 143	CA	GLY A	13 132.818	11.397	-0.322 1.00 0.00
ATOM 144	. С	GLY A	13 133.068	10.012	-0.886 1.00 0.00

ATOM 145	0	GLY A	13 132.330	9.545	-1.754 1.00 0.00
ATOM 146	H	GLY A	13 132.954	11.064	1.765 1.00 0.00
ATOM 147	1HA	GLY A	13 131.753	11.577	-0.298 1.00 0.00
ATOM 148	2HA	GLY A	13 133.278	12.127	-0.972 1.00 0.00
ATOM 149	N	ASN A	14 134.112	9.353	-0.393 1.00 0.00
ATOM 150	CA	ASN A	14 134.459	8.014	-0.854 1.00 0.00
ATOM 151	C	ASN A	14 133.299	7.045	-0.640 1.00 0.00
ATOM 152	0	ASN A	14 132.195	7.453	-0.284 1.00 0.00
ATOM 153	CB	ASN A	14 135.703	7.506	-0.122 1.00 0.00
ATOM 154	CG	ASN A	14 136.823	8.529	-0.108 1.00 0.00
ATOM 155	OD1	ASN A	14 136.609	9.697	0.216 1.00 0.00
ATOM 156	ND2	ASN A	14 138.026	8.093	-0.460 1.00 0.00
ATOM 157	H	ASN A	14 134.664	9.778	0.297 1.00 0.00
ATOM 158	HA	ASN A	14 134.672	8.072	-1.911 1.00 0.00
ATOM 159	1HB	ASN A	14 135.442	7.272	0.899 1.00 0.00
ATOM 160	2HB	ASN A	14 136.062	6.613	-0.612 1.00 0.00
ATOM 161	1HD2	2 ASN A	14 138.123	7.149	-0.706 1.00 0.00
ATOM 162	2HD:	2 ASN A	14 138.769	8.733	-0.460 1.00 0.00
ATOM 163	N	SER A	15 133.559	5.761	-0.861 1.00 0.00
ATOM 164	CA	SER A	15 132.538	4.734	-0.693 1.00 0.00
ATOM 165	С	SER A	15 132.234	4.506	0.785 1.00 0.00
ATOM 166	0	SER A	15 131.163	4.867	1.271 1.00 0.00
ATOM 167	CB	SER A	15 132.989	3.423	-1.341 1.00 0.00
ATOM 168	OG	SER A	15 132.025	2.403	-1.154 1.00 0.00
ATOM 169	H	SER A	15 134.460	5.496	-1.144 1.00 0.00
ATOM 170	HA	SER A	15 131.639	5.077	-1.184 1.00 0.00
ATOM 171	1HE	SER A	15 133.130	3.578	-2.400 1.00 0.00
ATOM 172	2HE	SER A	15 133.92	3.108	3 -0.896 1.00 0.00
ATOM 173	HG	SER A	15 132.12	1 2.027	-0.276 1.00 0.00

ATOM 174	N	HIS A	16 133.184	3.902	1.492 1.00 0.00
ATOM 175	CA	HIS A	16 133.019	3.626	2.914 1.00 0.00
ATOM 176	C	HIS A	16 133.864	4.578	3.754 1.00 0.00
ATOM 177	0	HIS A	16 133.441	5.026	4.820 1.00 0.00
ATOM 178	CB	HIS A	16 133.401	2.176	3.221 1.00 0.00
ATOM 179	CG	HIS A	16 132.222	1.262	3.354 1.00 0.00
ATOM 180	ND1	HIS A	16 131.448	1.193	4.493 1.00 0.00
ATOM 181	CD2	HIS A	16 131.686	0.375	2.482 1.00 0.00
ATOM 182	CE1	HIS A	16 130.487	0.303	4.316 1.00 0.00
ATOM 183	NE2	HIS A	16 130.610	-0.207	3.104 1.00 0.00
ATOM 184	H	HIS A	16 134.016	3.638	1.047 1.00 0.00
ATOM 185	HA	HIS A	16 131.978	3.775	3.162 1.00 0.00
ATOM 186	1HB	HIS A	16 134.024	1.800	2.424 1.00 0.00
ATOM 187	2HB	HIS A	16 133.953	2.144	4.149 1.00 0.00
ATOM 188	HD1	HIS A	16 131.582	1.718	5.309 1.00 0.00
ATOM 189	HD2	HIS A	16 132.040	0.165	1.482 1.00 0.00
ATOM 190	HE1	HIS A	16 129.730	0.038	5.039 1.00 0.00
ATOM 191	HE2	HIS A	16 129.981	-0.833	2.688 1.00 0.00
ATOM 192	N	GLY A	17 135.063	4.882	3.267 1.00 0.00
ATOM 193	CA	GLY A	17 135.949	5.778	3.985 1.00 0.00
ATOM 194	С	GLY A	17 137.401	5.349	3.901 1.00 0.00
ATOM 195	0	GLY A	17 138.064	5.173	4.923 1.00 0.00
ATOM 196	Н	GLY A	17 135.348	4.495	2.413 1.00 0.00
ATOM 197	1HA	GLY A	17 135.854	6.771	3.570 1.00 0.00
ATOM 198	2HA	GLY A	17 135.654	5.805	5.024 1.00 0.00
ATOM 199	N	LEU A	18 137.897	5.182	2.678 1.00 0.00
ATOM 200	CA	LEU A	18 139.279	4.771	2.465 1.00 0.00
ATOM 201	C	LEU A	18 140.246	5.872	2.888 1.00 0.00
ATOM 202	0	LEU A	18 140.497	6.814	2.136 1.00 0.00

ATOM	203	CB	LEU A	18 139.506	4.415	0.994 1.00 0.00
ATOM	204	CG	LEU A	18 138.484	3.445	0.398 1.00 0.00
ATOM	205	CD1	LEU A	18 138.481	3.540	-1.120 1.00 0.00
ATOM	206	CD2	LEU A	18 138.781	2.021	0.844 1.00 0.00
ATOM	207	Н	LEU A	18 137.318	5.338	1.903 1.00 0.00
ATOM	208	HA	LEU A	18 139.462	3.895	3.070 1.00 0.00
ATOM	209	1HB	LEU A	18 139.484	5.328	0.417 1.00 0.00
ATOM	210	2HB	LEU A	18 140.486	3.972	0.900 1.00 0.00
ATOM	211	HG .	LEU A	18 137.498	3.709	0.751 1.00 0.00
ATOM	212	1HD1	LEU A	18 138.860	4.506	-1.421 1.00 0.00
ATOM	213	2HD1	LEU A	18 137.472	3.419	-1.485 1.00 0.00
ATOM	214	3HD1	LEU A	18 139.109	2.763	-1.530 1.00 0.00
ATOM	215	1HD2	LEU A	18 139.591	1.619	0.254 1.00 0.00
ATOM	216	2HD2	LEU A	18 137.899	1.411	0.709 1.00 0.00
ATOM	217	3HD2	LEU A	18 139.061	2.021	1.887 1.00 0.00
ATOM	218	N	GLU A	19 140.783	5.748	4.096 1.00 0.00
ATOM	219	CA	GLU A	19 141.722	6.733	4.621 1.00 0.00
ATOM	220	С	GLU A	19 142.809	6.061	5.452 1.00 0.00
ATOM	221	0	GLU A	19 142.810	4.843	5.622 1.00 0.00
ATOM	222	CB	GLU A	19 140.984	7.772	5.467 1.00 0.00
ATOM	223	CG	GLU A	19 140.233	7.174	6.645 1.00 0.00
ATOM	224	CD	GLU A	19 139.754	8.226	7.625 1.00 0.00
ATOM	225	OE1	GLU A	19 140.533	9.155	7.928 1.00 0.00
ATOM	226	OE2	GLU A	19 138.599	8.123	8.091 1.00 0.00
ATOM	227	H	GLU A	19 140.544	4.976	4.650 1.00 0.00
ATOM	228	HA	GLU A	19 142.184	7.230	3.779 1.00 0.00
ATOM	229	1HB	GLU A	19 141.702	8.483	5.849 1.00 0.00
ATOM	230	2HB	GLU A	19 140.274	8.291	4.841 1.00 0.00
ATOM	231	1HG	GLU A	19 139.375	6.635	6.272 1.00 0.00

ATOM 232	2HG	GLU A	19 140.888	6.490	7.164 1.00 0.00
ATOM 233	N	VAL A	20 143.732	6.865	5.969 1.00 0.00
ATOM 234	CA	VAL A	20 144.825	6.349	6.785 1.00 0.00
ATOM 235	С	VAL A	20 144.297	5.620	8.015 1.00 0.00
ATOM 236	0	VAL A	20 143.530	6.181	8.799 1.00 0.00
ATOM 237	CB	VAL A	20 145.770	7.479	7.235 1.00 0.00
ATOM 238	CG1	VAL A	20 146.993	6.908	7.939 1.00 0.00
ATOM 239	CG2	VAL A	20 146.181	8.337	6.049 1.00 0.00
ATOM 240	H	VAL A	20 143.678	7.829	5.798 1.00 0.00
ATOM 241	HA	VAL A	20 145.391	5.654	6.182 1.00 0.00
ATOM 242	HB	VAL A	20 145.240	8.105	7.938 1.00 0.00
ATOM 243	1HG1	VAL A	20 146.795	6.830	8.997 1.00 0.00
ATOM 244	2HG1	VAL A	20 147.838	7.559	7.777 1.00 0.00
ATOM 245	3HG1	VAL A	20 147.211	5.928	7.540 1.00 0.00
ATOM 246	1HG2	VAL A	20 145.398	9.046	5.828 1.00 0.00
ATOM 247	2HG2	VAL A	20 146.348	7.705	5.189 1.00 0.00
ATOM 248	3HG2	2 VAL A	20 147.091	8.868	6.287 1.00 0.00
ATOM 249	N	GLY A	21 144.711	4.369	8.179 1.00 0.00
ATOM 250	CA	GLY A	21 144.269	3.583	9.316 1.00 0.00
ATOM 251	С	GLY A	21 143.228	2.548	8.939 1.00 0.00
ATOM 252	0	GLY A	21 143.210	1.447	9.489 1.00 0.00
ATOM 253	Н	GLY A	21 145.322	3.975	7.522 1.00 0.00
ATOM 254	1HA	GLY A	21 145.123	3.080	9.745 1.00 0.00
ATOM 255	2HA	GLY A	21 143.847	4.248	10.056 1.00 0.00
ATOM 256	N	SER A	22 142.359	2.901	7.997 1.00 0.00
ATOM 257	CA	SER A	22 141.310	1.995	7.546 1.00 0.00
ATOM 258	С	SER A	22 141.877	0.922	6.622 1.00 0.00
ATOM 259	0	SER A	22 142.764	1.192	5.812 1.00 0.00
ATOM 260	CB	SER A	22 140.208	2.774	6.826 1.00 0.00

ATOM 261	OG	SER A	22 139.268	3.299	7.747 1.00 0.00
ATOM 262	H	SER A	22 142.425	3.793	7.596 1.00 0.00
ATOM 263	HA	SER A	22 140.889	1.516	8.417 1.00 0.00
ATOM 264	1HB	SER A	22 140.649	3.592	6.276 1.00 0.00
ATOM 265	2HB	SER A	22 139.694	2.116	6.141 1.00 0.00
ATOM 266	HG	SER A	22 138.475	3.569	7.277 1.00 0.00
ATOM 267	N	LEU A	23 141.359	-0.295	6.749 1.00 0.00
ATOM 268	CA	LEU A	23 141.815	-1.410	5.924 1.00 0.00
ATOM 269	С	LEU A	23 141.296	-1.278	4.496 1.00 0.00
ATOM 270	0	LEU A	23 140.234	-0.702	4.261 1.00 0.00
ATOM 271	CB	LEU A	23 141.353	-2.738	6.526 1.00 0.00
ATOM 272	CG	LEU A	23 141.931	-3.059	7.905 1.00 0.00
ATOM 273	CD1	LEU A	23 140.954	-3.903	8.709 1.00 0.00
ATOM 274	CD2	LEU A	23 143.268	-3.773	7.769 1.00 0.00
ATOM 275	Н	LEU A	23 140.655	-0.449	7.412 1.00 0.00
ATOM 276	HA	LEU A	23 142.894	-1.388	5.907 1.00 0.00
ATOM 277	1HB	LEU A	23 140.276	-2.718	6.605 1.00 0.00
ATOM 278	2HB	LEU A	23 141.633	-3.531	5.850 1.00 0.00
ATOM 279	HG	LEU A	23 142.096	-2.137	8.443 1.00 0.00
ATOM 280	1HD	1 LEU A	23 140.921	-4.902	8.302 1.00 0.00
ATOM 281	2HD	1 LEU A	23 139.970	-3.460	8.659 1.00 0.00
ATOM 282	3HD	1 LEU A	23 141.277	-3.944	9.739 1.00 0.00
ATOM 283	1HD	2 LEU A	23 143.908	-3.500	8.594 1.00 0.00
ATOM 284	2HD	2 LEU A	23 143.736	-3.485	6.840 1.00 0.00
ATOM 285	3HD	2 LEU A	23 143.107	-4.841	7.776 1.00 0.00
ATOM 286	N	ALA A	24 142.055	-1.814	3.546 1.00 0.00
ATOM 287	CA	ALA A	24 141.672	-1.757	2.140 1.00 0.00
ATOM 288	C	ALA A	24 142.245	-2.941	1.367 1.00 0.00
ATOM 289	0	ALA A	24 143.206	-3.573	1.804 1.00 0.00

ATOM 290	CB	ALA A	24 142.135	-0.447	1.520 1.00 0.00
ATOM 291	H	ALA A	24 142.890	-2.260	3.795 1.00 0.00
ATOM 292	HA	ALA A	24 140.593	-1.793	2.086 1.00 0.00
ATOM 293	1HB	ALA A	24 143.026	-0.105	2.025 1.00 0.00
ATOM 294	2HB	ALA A	24 141.356	0.295	1.623 1.00 0.00
ATOM 295	ЗНВ	ALA A	24 142.350	-0.601	0.473 1.00 0.00
ATOM 296	N	GLU A	25 141.647	-3.236	0.217 1.00 0.00
ATOM 297	CA	GLU A	25 142.098	-4.344	-0.617 1.00 0.00
ATOM 298	С	GLU A	25 142.441	-3.863	-2.023 1.00 0.00
ATOM 299	0	GLU A	25 141.810	-2.945	-2.547 1.00 0.00
ATOM 300	CB	GLU A	25 141.023	-5.430	-0.684 1.00 0.00
ATOM 301	CG	GLU A	25 141.523	-6.747	-1.252 1.00 0.00
ATOM 302	CD	GLU A	25 140.399	-7.623	-1.770 1.00 0.00
ATOM 303	OE1	GLU A	25 140.407	-7.947	-2.976 1.00 0.00
ATOM 304	0E2	GLU A	25 139.511	-7.986	-0.970 1.00 0.00
ATOM 305	Н	GLU A	25 140.885	-2.695	-0.079 1.00 0.00
ATOM 306	HA	GLU A	25 142.987	-4.758	-0.164 1.00 0.00
ATOM 307	1HB	GLU A	25 140.646	-5.611	0.311 1.00 0.00
ATOM 308	2HB	GLU A	25 140.212	-5.078	-1.306 1.00 0.00
ATOM 309	1HG	GLU A	25 142.200	-6.540	-2.066 1.00 0.00
ATOM 310	2HG	GLU A	25 142.048	-7.283	-0.475 1.00 0.00
ATOM 311	N	VAL A	26 143.445	-4.489	-2.629 1.00 0.00
ATOM 312	CA	VAL A	26 143.872	-4.124	-3.974 1.00 0.00
ATOM 313	C	VAL A	26 143.444	-5.178	-4.990 1.00 0.00
ATOM 314	0	VAL A	26 143.415	-6.370	-4.688 1.00 0.00
ATOM 315	CB	VAL A	26 145.399	-3.944	-4.051 1.00 0.00
ATOM 316	CG1	VAL A	26 145.804	-3.375	-5.401 1.00 0.00
ATOM 317	CG2	VAL A	26 145.890	-3.054	-2.919 1.00 0.00
ATOM 318	Н	VAL A	26 143.910	-5.212	-2.160 1.00 0.00

ATOM 3	319	HA	VAL .	A	26	143.406	-3.183	-4.229	1.00	0.00
ATOM 3	320	HB	VAL .	A	26	145.861	-4.915	-3.942	1.00	0.00
ATOM 3	321	1HG1	VAL .	A	26	146.882	-3.336	-5.467	1.00	0.00
ATOM 3	322	2HG1	VAL	A	26	145.401	-2.378	-5.506	1.00	0.00
ATOM 3	323	3HG1	VAL	A	26	145.418	-4.005	-6.188	1.00	0.00
ATOM 3	324	1HG2	VAL	A	26	145.976	-3.637	-2.013	1.00	0.00
ATOM 3	325	2HG2	VAL	A	26	145.186	-2.250	-2.763	1.00	0.00
ATOM :	326	3HG2	VAL	A	26	146.855	-2.643	-3.175	1.00	0.00
ATOM 3	327	N	LYS	A	27	143.116	-4.729	-6.197	1.00	0.00
ATOM :	328	CA	LYS	A	27	142.690	-5.633	-7.259	1.00	0.00
ATOM	329	С	LYS	A	27	143.880	-6.082	-8.101	1.00	0.00
ATOM	330	0	LYS	A	27	144.102	-5.577	-9.201	1.00	0.00
ATOM	331	СВ	LYS	A	27	141.647	-4.954	-8.149	1.00	0.00
ATOM	332	CG	LYS	A	27	140.301	-4.761	-7.470	1.00	0.00
ATOM	333	CD	LYS	A	27	139.285	-5.786	-7.945	1.00	0.00
ATOM	334	CE	LYS	A	27	139.368	-7.071	-7.135	1.00	0.00
ATOM	335	NZ	LYS	A	27	138.350	-7.109	-6.048	1.00	0.00
ATOM	336	Н	LYS	A	27	143.160	-3.766	-6.378	1.00	0.00
ATOM	337	HA	LYS	A	27	142.245	-6.501	-6.796	1.00	0.00
ATOM	338	1HB	LYS	A	27	142.021	-3.983	-8.443	1.00	0.00
ATOM	339	2HB	LYS	A	27	141.499	-5.556	-9.034	1.00	0.00
ATOM	340	1HG	LYS	A	27	140.429	-4.864	-6.403	1.00	0.00
ATOM	341	2HG	LYS	A	27	139.933	-3.771	-7.698	1.00	0.00
ATOM	342	1HD	LYS	A	27	138.293	-5.372	-7.841	1.00	0.00
ATOM	343	2HD	LYS	A	27	139.475	-6.014	-8.984	1.00	0.00
ATOM	344	1HE	LYS	A	27	139.208	-7.909	<i>-</i> 7. <i>7</i> 95	1.00	0.00
ATOM	345	2HE	LYS	A	27	140.353	-7.141	-6.697	1.00	0.00
ATOM	346	1HZ	LYS	A	27	137.554	-6.482	-6.282	1.00	0.00
ATOM	347	2HZ	LYS	A	27	138.772	-6.795	-5.152	1.00	0.00

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-5.928 1.00 0.00
                LYS A
                       27 137.992
                                    -8.078
ATOM 348
           3HZ
                                    -7.034
                                            -7.575 1.00 0.00
                GLU A
                        28 144.644
ATOM 349
           N
                                            -8.278 1.00 0.00
                                    -7.553
                GLU A
                        28 145.812
ATOM 350
           CA
                                    -9.064
                                            -8.456 1.00 0.00
                        28 145.714
           C
                 GLU A
ATOM 351
                                    -9.664
                                             -8.195 1.00 0.00
ATOM 352
           0
                 GLU A
                        28 144.671
                                    -7.198
                                             -7.514 1.00 0.00
           CB
                 GLU A
                        28 147.091
ATOM 353
                        28 148.178
                                    -6.601
                                             -8.394 1.00 0.00
           CG
                 GLU A
ATOM 354
                                    -7.148
                                             -8.072 1.00 0.00
                        28 149.554
ATOM 355
            CD
                 GLU A
                                    -7.154
                                             -8.976 1.00 0.00
                        28 150.418
ATOM 356
                 GLU A
            0E1
                                             -6.918 \ 1.00 \ 0.00
                        28 149.770
                                    -7.572
                 GLU A
ATOM 357
            0E2
                                             -6.694 1.00 0.00
                                    -7.397
                        28 144.417
ATOM 358
            H
                 GLU A
                                    -7.088
                                             -9.252 1.00 0.00
                        28 145.846
ATOM 359
            HA
                 GLU A
                                             -6.743 1.00 0.00
                                     -6.482
ATOM 360
            1HB
                 GLU A
                        28 146.849
                                             -7.052 1.00 0.00
                                     -8.092
ATOM 361
            2HB
                 GLU A
                        28 147.483
                                             -9.426 1.00 0.00
                                     -6.824
ATOM 362
            1HG
                 GLU A
                        28 147.952
                        28 148.190
                                     -5.530
                                             -8.252 1.00 0.00
ATOM 363
            2HG
                 GLU A
                                             -8.902 1.00 0.00
ATOM 364
            N
                 ASN A
                         29 146.807
                                    -9.675
                                             -9.113 1.00 0.00
                         29 146.843 -11.117
            CA
                 ASN A
 ATOM 365
                                             -7.781 1.00 0.00
            C
                 ASN A
                         29 146.916 -11.858
 ATOM 366
                                             -7.467 1.00 0.00
                 ASN A
                         29 146.049 -12.673
 ATOM 367
            0
                 ASN A
                         29 148.038 -11.495 -9.992 1.00 0.00
            CB
 ATOM 368
                         29 147.648 -11.689 -11.445 1.00 0.00
 ATOM 369
            CG
                  ASN A
                         29 147.487 -12.817 -11.911 1.00 0.00
                  ASN A
 ATOM 370
            OD1
                  ASN A
                         29 147.495 -10.586 -12.168 1.00 0.00
 ATOM 371
            ND2
                         29 147.608 -9.143 -9.092 1.00 0.00
                  ASN A
 ATOM 372
            H
                         29 145.932 -11.400
                                             -9.619 1.00 0.00
 ATOM 373
                  ASN A
            HA
                         29 148.778 -10.711
                                              -9.939 1.00 0.00
                  ASN A
 ATOM 374
            1HB
                  ASN A
                         29 148.468 -12.416 -9.627 1.00 0.00
 ATOM 375
             2HB
                         29 147.640 -9.721 -11.730 1.00 0.00
 ATOM 376
             1HD2 ASN A
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ATOM 3	77	2HD2	ASN A	A	29	147.2	244	-10.	682	-13.1	10]	1.00	0.00
ATOM 3	78	N	PRO .	A	30	147.9	958	-11.	585	-6.9	76	1.00	0.00
ATOM 3	79	CA	PRO .	A	30	148.	142	-12.	228	-5.6	74	1.00	0.00
ATOM 3	80 .	С	PRO	A	30	147.	254	-11.	613	-4.5	93	1.00	0.00
ATOM 3	81	0	PRO	A	30	147.	455	-10.	466	-4.1	94	1.00	0.00
ATOM 3	82	CB	PRO	A	30	149.	614	-11.	962	-5.3	67	1.00	0.00
ATOM 3	83	CG	PRO	A	30	149.	906	-10.	665	-6.0	40	1.00	0.00
ATOM 3	84	CD	PRO	A	30	149.	040	-10.	624	-7.2	74	1.00	0.00
ATOM 3	885	HA	PRO	A	30	147.	968	-13.	291	-5.7	27	1.00	0.00
ATOM 3	886	1HB	PRO	A	30	149.	757	-11.	. 895	-4.2	98	1.00	0.00
ATOM 3	887	2HB	PRO	A	30	150.	220	-12	. 760	-5.7	69	1.00	0.00
ATOM 3	388	1HG	PRO	A	30	149.	657	-9	. 846	-5.3	81	1.00	0.00
ATOM 3	389	2HG	PRO	A	30	150.	949	-10	. 622	-6.3	315	1.00	0.00
ATOM 3	390	1HD	PRO	A	30	148.	643	-9	. 631	-7.4	120	1.00	0.00
ATOM 3	391	2HD	PRO	A	30	149.	604	-10	. 936	-8.1	l 40	1.00	0.00
ATOM 3	392	N	PR0	A	31	146.	253	-12	. 366	-4.]	102	1.00	0.00
ATOM :	393	CA	PRO	A	31	145.	337	-11	. 880	-3.0)63	1.00	0.00
ATOM :	394	С	PRO	A	31	146.	064	-11	. 536	-1.7	768	1.00	0.00
ATOM :	395	0	PRO	A	31	146.	500	-12	. 422	-1.0	034	1.00	0.00
ATOM :	396	CB	PRO	A	31	144.	. 378	-13	. 056	-2.8	838	1.00	0.00
ATOM	397	CG	PRO	A	31	144	. 514	-13	909	-4.0	053	1.00	0.00
ATOM	398	CD	PRO	A	31	145	. 932	-13	3.743	-4.	514	1.00	0.00
ATOM	399	HA	PRO	A	31	. 144	. 781	11	.018	3 -3.	401	1.00	0.00
ATOM	400	1HB	PRO	A	31	144	. 666	5 -13	3.593	3 -1.	946	1.00	0.00
ATOM	401	2HB	PRO	A	31	143	. 369	-12	2.685	5 -2.	730	1.00	0.00
ATOM	402	1HG	PRO	A	31	144	.319	9 -14	1.940) -3 .	802	1.00	0.00
ATOM	403	2HG	PRO	A	31	l 143	. 829	-13	3.57	L -4.	817	1.00	0.00
ATOM	404	1HD	PRO	A	3	l 146	. 576	5 -14	4.455	5 –4.	020	1.00	0.00
MOTA	405	2HD	PRO	A	3.	l 145	. 997	7 –13	3.849	9 -5.	586	1.00	0.00

ATOM 406	N	PHE A	32 146.191 -	10.242	-1.492 1.00 0.00
ATOM 407	CA	PHE A	32 146.864	-9.781	-0.283 1.00 0.00
ATOM 408	С	PHE A	32 146.068	-8.670	0.395 1.00 0.00
ATOM 409	0	PHE A	32 145.464	-7.831	-0.273 1.00 0.00
ATOM 410	CB	PHE A	32 148.273	-9.285	-0.615 1.00 0.00
ATOM 411	CG	PHE A	32 148.295	-8. 133	-1.580 1.00 0.00
ATOM 412	CD1	PHE A	32 147.870	-6.875	-1.187 1.00 0.00
ATOM 413	CD2	PHE A	32 148.741	-8.311	-2.879 1.00 0.00
ATOM 414	CE1	PHE A	32 147.889	-5.815	-2.073 1.00 0.00
ATOM 415	CE2	PHE A	32 148.763	-7.254	-3.769 1.00 0.00
ATOM 416	CZ	PHE A	32 148.337	-6.004	-3.366 1.00 0.00
ATOM 417	H	PHE A	32 145.822	-9.581	-2.115 1.00 0.00
ATOM 418	HA	PHE A	32 146.938 -	-10.618	0.394 1.00 0.00
ATOM 419	1HB	PHE A	32 148.757	-8.964	0.295 1.00 0.00
ATOM 420	2HB	PHE A	32 148.839 -	-10.095	-1.050 1.00 0.00
ATOM 421	HD1	PHE A	32 147.520	-6.724	-0.176 1.00 0.00
ATOM 422	HD2	PHE A	32 149.076	-9.288	-3.196 1.00 0.00
ATOM 423	HE1	PHE A	32 147.554	-4.838	-1.755 1.00 0.00
ATOM 424	HE2	PHE A	32 149.113	-7.405	-4.780 1.00 0.00
ATOM 425	HZ	PHE A	32 148.352	-5.177	-4.059 1.00 0.00
ATOM 426	N	TYR A	33 146.071	-8.673	1.724 1.00 0.00
ATOM 427	CA	TYR A	33 145.349	-7.666	2.492 1.00 0.00
ATOM 428	С	TYR A	33 146.315	-6.689	3.153 1.00 0.00
ATOM 429	0	TYR A	33 147.406	-7.072	3.575 1.00 0.00
ATOM 430	CB	TYR A	33 144.475	-8.335	3.555 1.00 0.00
ATOM 431	CG	TYR A	33 143.212	-8.953	2.999 1.00 0.00
ATOM 432	CD1	TYR A	33 142.857	-10.258	3.318 1.00 0.00
ATOM 433	CD2	TYR A	33 142.375	-8.232	2.157 1.00 0.00
ATOM 434	CE1	TYR A	33 141.704	-10.828	2.811 1.00 0.00

ATOM 435	CE2	TYR A	33 141.220 -	8.794	1.647 1.00 0.00
ATOM 436	CZ	TYR A	33 140.888 -1	0.091	1.977 1.00 0.00
ATOM 437	OH	TYR A	33 139.740 -1	0.655	1.473 1.00 0.00
ATOM 438	H	TYR A	33 146.571 -	9.369	2.199 1.00 0.00
ATOM 439	HA	TYR A	33 144.715 -	-7.121	1.809 1.00 0.00
ATOM 440	1HB	TYR A	33 145.042 -	-9.116	4.037 1.00 0.00
ATOM 441	2HB	TYR A	33 144.188 -	-7.598	4.290 1.00 0.00
ATOM 442	HD1	TYR A	33 143.497 -1	10.832	3.971 1.00 0.00
ATOM 443	HD2	TYR A	33 142.637	-7.216	1.900 1.00 0.00
ATOM 444	HE1	TYR A	33 141.445 -	11.844	3.070 1.00 0.00
ATOM 445	HE2	TYR A	33 140.581 -	-8.217	0.994 1.00 0.00
ATOM 446	НН	TYR A	33 139.799 -	10.701	0.515 1.00 0.00
ATOM 447	N	GLY A	34 145.909	-5.427	3.237 1.00 0.00
ATOM 448	CA	GLY A	34 146.751	-4.416	3.848 1.00 0.00
ATOM 449	С	GLY A	34 145.959	-3.219	4.337 1.00 0.00
ATOM 450	0	GLY A	34 144.841	-2.978	3.884 1.00 0.00
ATOM 451	H	GLY A	34 145.029	-5.181	2.883 1.00 0.00
ATOM 452	1HA	GLY A	34 147.273	-4.856	4.684 1.00 0.00
ATOM 453	2НА	GLY A	34 147.476	-4.081	3.121 1.00 0.00
ATOM 454	N	VAL A	35 146.541	-2.468	5.266 1.00 0.00
ATOM 455	CA	VAL A	35 145.884	-1.291	5.818 1.00 0.00
ATOM 456	C	VAL A	35 146.524	-0.008	5.294 1.00 0.00
ATOM 457	0	VAL A	35 147.743	0.072	5.144 1.00 0.00
ATOM 458	CB	VAL A	35 145.936	-1.289	7.360 1.00 0.00
ATOM 459	CG1	VAL A	35 147.377	-1.253	7.849 1.00 0.00
ATOM 460	CG2	VAL A	35 145.140	-0.120	7.925 1.00 0.00
ATOM 461	Н	VAL A	35 147.434	-2.712	5.588 1.00 0.00
ATOM 462	HA	VAL A	35 144.848	-1.314	5.514 1.00 0.00
ATOM 463	HB	VAL A	35 145.486	-2.206	7.713 1.00 0.00

ATTOM AGA	TITOT TAT A	35 147.393	1 031	8.905 1.00 0.00
ATOM 464	1HG1 VAL A			
ATOM 465	2HG1 VAL A	35 147.920	-0.489	7.312 1.00 0.00
ATOM 466	3HG1 VAL A	35 147.841	-2.213	7.675 1.00 0.00
ATOM 467	1HG2 VAL A	35 144.771	0.491	7.115 1.00 0.00
ATOM 468	2HG2 VAL A	35 145.777	0.476	8.563 1.00 0.00
ATOM 469	3HG2 VAL A	35 144.307	-0.497	8.500 1.00 0.00
ATOM 470	N ILE A	36 145.694	0.991	5.016 1.00 0.00
ATOM 471	CA ILE A	36 146.181	2.269	4.508 1.00 0.00
ATOM 472	C ILE A	36 147.115	2.937	5.513 1.00 0.00
ATOM 473	0 ILE A	36 146.824	2.986	6.708 1.00 0.00
ATOM 474	CB ILE A	36 145.017	3.229	4.186 1.00 0.00
ATOM 475	CG1 ILE A	36 143.994	2.541	3.278 1.00 0.00
ATOM 476	CG2 ILE A	36 145.541	4.501	3.533 1.00 0.00
ATOM 477	CD1 ILE A	36 142.827	3.428	2.903 1.00 0.00
ATOM 478	H ILE A	36 144.733	0.868	5.157 1.00 0.00
ATOM 479	HA ILE A	36 146.727	2.079	3.596 1.00 0.00
ATOM 480	HB ILE A	36 144.538	3.502	5.114 1.00 0.00
ATOM 481	1HG1 ILE A	36 144.482	2.233	2.367 1.00 0.00
ATOM 482	2HG1 ILE A	36 143.601	1.671	3.784 1.00 0.00
ATOM 483	1HG2 ILE A	36 145.386	4.447	2.465 1.00 0.00
ATOM 484	2HG2 ILE A	36 146.597	4.602	3.738 1.00 0.00
ATOM 485	3HG2 ILE A	36 145.013	5.354	3.931 1.00 0.00
ATOM 486	1HD1 ILE A	36 142.347	3.036	2.018 1.00 0.00
ATOM 487	2HD1 ILE A	36 143.183	4.428	2.706 1.00 0.00
ATOM 488	3HD1 ILE A	36 142.116	3.452	3.716 1.00 0.00
ATOM 489	N ARG A	37 148.237	3.449	5.019 1.00 0.00
ATOM 490	CA ARG A	37 149.215	4.113	5.872 1.00 0.00
ATOM 491	C ARG A	37 149.395	5.571	5.462 1.00 0.00
ATOM 492	O ARG	37 149.097	6.483	6.232 1.00 0.00

ATOM 4	493	СВ	ARG	A	37	150.558	3.383	5.807	1.00	0.00
ATOM 4	494	CG	ARG	A	37	150.462	1.902	6.127	1.00	0.00
ATOM 4	495	CD	ARG	A	37	149.957	1.669	7.543	1.00	0.00
ATOM 4	496	NE	ARG	A	37	150.921	2.111	8.547	1.00	0.00
ATOM 4	497	CZ	ARG	A	37	150.615	2.326	9.825	1.00	0.00
ATOM 4	498	NH1	ARG	A	37	149.373	2.142	10.257	1.00	0.00
ATOM ·	499	NH2	ARG	A	37	151.552	2.726	10.673	1.00	0.00
ATOM	500	H	ARG	A	37	148.412	3.377	4.057	1.00	0.00
ATOM	501	HA	ARG	A	37	148.847	4.080	6.887	1.00	0.00
ATOM	502	1HB	ARG	A	37	150.964	3.489	4.811	1.00	0.00
ATOM	503	2HB	ARG	A	37	151.237	3.839	6.513	1.00	0.00
ATOM	504	1HG	ARG	A	37	149.779	1.436	5.432	1.00	0.00
ATOM	505	2HG	ARG	A	37	151.441	1.457	6.027	1.00	0.00
ATOM	506	1HD	ARG	A	37	149.036	2.217	7.676	1.00	0.00
ATOM	507	2HD	ARG	A	37	149.770	0.614	7.675	1.00	0.00
ATOM	508	HE	ARG	A	37	151.845	2.255	8.255	1.00	0.00
ATOM	509	1HH1	ARG	A	37	148.661	1.839	9.623	1.00	0.00
ATOM	510	2HH1	ARG	A	37	149.150	2.304	11.218	1.00	0.00
ATOM	511	1HH2	ARG	A	37	152.488	2.866	10.352	1.00	0.00
ATOM	512	2HH2	ARG	A	37	151.322	2:887	11.632	1.00	0.00
ATOM	513	N	TRP	A	38	149.882	5.784	4.244	1.00	0.00
ATOM	514	CA	TRP	A	38	150.100	7.132	3.733	1.00	0.00
ATOM	515	С	TRP	Α	38	149.375	7.336	2.406	1.00	0.00
ATOM	516	0	TRP	Α	38	149.482	6.516	1.495	1.00	0.00
ATOM	517	CB	TRP	Α	38	151.599	7.402	3.559	1.00	0.00
ATOM	518	CG	TRP	A	38	151.898	8.654	2.788	1.00	0.00
ATOM	519	CD1	TRP	A	38	152.099	9.904	3.297	1.00	0.00
ATOM	520	CD2	TRP	A	38	152.022	8.774	1.366	1.00	0.00
ATOM	521	NE1	TRF	A	38	152.341	10.795	2.279	1.00	0.00

ATOM S	522	CE2	TRP A	38 152.299	10.126	1.084 1.00 0.00
ATOM S	523	CE3	TRP A	38 151.926	7.871	0.304 1.00 0.00
ATOM S	524	CZ2	TRP A	38 152.481	10.593	-0.216 1.00 0.00
ATOM !	525	CZ3	TRP A	38 152.107	8.335	-0.985 1.00 0.00
ATOM	526	CH2	TRP A	38 152.381	9.685	-1.236 1.00 0.00
ATOM	527	H	TRP A	38 150.101	5.016	3.675 1.00 0.00
ATOM	528	HA	TRP A	38 149.700	7.828	4.456 1.00 0.00
ATOM	529	1HB	TRP A	38 152.056	7.494	4.533 1.00 0.00
ATOM	530	2HB	TRP A	38 152.049	6.571	3.035 1.00 0.00
ATOM	531	HD1	TRP A	38 152.068	10.144	4.350 1.00 0.00
ATOM	532	HE1	TRP A	38 152.516	11.753	2.391 1.00 0.00
ATOM	533	HE3	TRP A	38 151.715	6.827	0.477 1.00 0.00
ATOM	534	HZ2	TRP A	38 152.690	11.631	-0.427 1.00 0.00
ATOM	535	HZ3	TRP A	38 152.037	7.652	-1.818 1.00 0.00
ATOM	536	HH2	TRP A	38 152.516	10.004	-2.259 1.00 0.00
ATOM	537	N	ILE A	39 148.646	8.442	2.303 1.00 0.00
ATOM	538	CA	ILE A	39 147.911	8.766	1.088 1.00 0.00
ATOM	539	С	ILE A	39 148.340	10.125	0.546 1.00 0.00
ATOM	540	0	ILE A	39 147.988	11.165	1.104 1.00 0.00
ATOM	541	CB	ILE A	39 146.391	8.780	1.335 1.00 0.00
ATOM	542	CG1	ILE A	39 145.961	7.521	2.089 1.00 0.00
ATOM	543	CG2	ILE A	39 145.640	8.896	0.016 1.00 0.00
ATOM	544	CD1	ILE A	39 144.572	7.613	2.680 1.00 0.00
ATOM	545	H	ILE A	39 148.608	9.060	3.063 1.00 0.00
ATOM	546	HA	ILE A	39 148.130	8.008	0.350 1.00 0.00
ATOM	547	HB	ILE A	39 146.153	9.647	1.932 1.00 0.00
ATOM	548	1HG1	. ILE A	39 145.977	6.680	1.411 1.00 0.00
ATOM	549	2HG1	ILE A	39 146.656	7.338	2.897 1.00 0.00
ATOM	550	1HG2	ILE A	39 144.577	8.847	0.202 1.00 0.00

ATOM 551	2HG2	ILE A	39 145.930	8.085	-0.636 1.00 0.00
ATOM 552	3HG2	ILE A	39 145.880	9.839	-0.453 1.00 0.00
ATOM 553	1HD1	ILE A	39 143.973	8.287	2.086 1.00 0.00
ATOM 554	2HD1	ILE A	39 144.635	7.984	3.692 1.00 0.00
ATOM 555	3HD1	ILE A	39 144.116	6.634	2.682 1.00 0.00
ATOM 556	N	GLY A	40 149.108	10.112	-0.539 1.00 0.00
ATOM 557	CA	GLY A	40 149.576	11.353	-1.126 1.00 0.00
ATOM 558	С	GLY A	40 150.128	11.169	-2.526 1.00 0.00
ATOM 559	0	GLY A	40 149.973	10.107	-3.129 1.00 0.00
ATOM 560	Н	GLY A	40 149.362	9.254	-0.940 1.00 0.00
ATOM 561	1HA	GLY A	40 148.755	12.052	-1.165 1.00 0.00
ATOM 562	2HA	GLY A	40 150.351	11.763	-0.498 1.00 0.00
ATOM 563	N	GLN A	41 150.772	12.210	-3.042 1.00 0.00
ATOM 564	CA	GLN A	41 151.352	12.170	-4.378 1.00 0.00
ATOM 565	C	GLN A	41 152.824	12.581	-4.341 1.00 0.00
ATOM 566	0	GLN A	41 153.146	13.724	-4.012 1.00 0.00
ATOM 567	CB	GLN A	41 150.574	13.098	-5.310 1.00 0.00
ATOM 568	CG	GLN A	41 149.068	12.908	-5.240 1.00 0.00
ATOM 569	CD	GLN A	41 148.312	14.221	-5.293 1.00 0.00
ATOM 570	OE1	GLN A	41 148.274	14.968	-4.315 1.00 0.00
ATOM 571	NE2	GLN A	41 147.705	14.509	-6.437 1.00 0.00
ATOM 572	Н	GLN A	41 150.861	13.027	-2.510 1.00 0.00
ATOM 573	HA	GLN A	41 151.277	11.159	-4.745 1.00 0.00
ATOM 574	1HB	GLN A	41 150.798	14.121	-5.048 1.00 0.00
ATOM 575	2HB	GLN A	41 150.892	12.919	-6.325 1.00 0.00
ATOM 576	1HG	GLN A	41 148.754	12.298	-6.074 1.00 0.00
ATOM 577	2HG	GLN A	41 148.824	12.406	-4.316 1.00 0.00
ATOM 578	1HE2	GLN A	41 147.778	13.866	-7.174 1.00 0.00
ATOM 579	2HE2	GLN A	41 147.211	15.351	-6.500 1.00 0.00

ATOM !	580	N	PRO	A	42	153.742	11.656	-4.675	1.00	0.00
ATOM !	581	CA	PRO	A	42	155. 181	11.939	-4.673	1.00	0.00
ATOM	582	С	PRO	A	42	155.542	13. 108	-5.584	1.00	0.00
ATOM	583	0	PRO	A	42	154.782	13.461	-6.486	1.00	0.00
ATOM	584	СВ	PRO	A	42	155.808	10.641	-5.194	1.00	0.00
ATOM	585	CG	PRO	Α	42	154.786	9.590	-4.928	1.00	0.00
ATOM	586	CD	PRO	A	42	153.455	10.268	-5.079	1.00	0.00
ATOM	587	HA	PRO	A	42	155.542	12.139	-3.674	1.00	0.00
ATOM	588	1HB	PRO	A	42	156.012	10.737	-6.250	1.00	0.00
ATOM	589	2HB	PRO	A	42	156.725	10.442	-4.661	1.00	0.00
ATOM	590	1HG	PRO	A	42	154.883	8.791	-5.647	1.00	0.00
ATOM	591	2HG	PRO	A	42	154.901	9.210	-3.923	1.00	0.00
ATOM	592	1HD	PRO	A	42	153.124	10.226	-6.107	1.00	0.00
ATOM	593	2HD	PRO	A	42	152.724	9.819	-4.424	1.00	0.00
ATOM	594	N	PRO	A	43	156.714	13.726	-5.360	1.00	0.00
ATOM	595	CA	PRO	A	43	157.174	14.860	-6.166	1.00	0.00
ATOM	596	С	PRO	A	43	157.596	14.441	-7.569	1.00	0.00
ATOM	597	0	PRO	A	43	158.768	14.155	-7.816	1.00	0.00
ATOM	598	СВ	PRO	A	43	158.377	15.386	-5.384	1.00	0.00
ATOM	599	CG	PRO	A	43	158.887	14.204	-4.634	1.00	0.00
ATOM	600	CD	PRO	A	43	157.681	13.366	-4.305	1.00	0.00
ATOM	601	HA	PRO	A	43	156.419	15.630	-6.233	1.00	0.00
ATOM	602	1HB	PRO	A	43	159.117	15.767	-6.073	1.00	0.00
MOTA	603	2HB	PRO	A	43	158.061	16.171	-4.714	1.00	0.00
MOTA	604	1HG	PRO	A	43	159.573	13.646	-5.253	1.00	0.00
MOTA	605	2HG	PRO	A	43	159.376	14.528	-3.728	1.00	0.00
ATOM	606	1HD	PRO	A	43	157.928	12.316	-4.350	1.00	0.00
ATOM	607	2HD	PRO	A	43	157.298	13.624	-3.329	1.00	0.00
ATOM	608	N	GLY	A	44	156.635	14.406	-8.486	1.00	0.00

ATOM 609	CA	GLY A	44 156.931	14.021 -9.852 1.00 0.00
ATOM 610	С	GLY A	44 155.710	13.511 -10.590 1.00 0.00
ATOM 611	0	GLY A	44 155.412	13.962 -11.696 1.00 0.00
ATOM 612	Н	GLY A	44 155.719	14.645 -8.232 1.00 0.00
ATOM 613	1HA	GLY A	44 157.323	14.877 -10.378 1.00 0.00
ATOM 614	2HA	GLY A	44 157.681	13.245 -9.840 1.00 0.00
ATOM 615	N	LEU A	45 155.002	12.568 -9.979 1.00 0.00
ATOM 616	CA	LEU A	45 153.807	11.996 -10.589 1.00 0.00
ATOM 617	С	LEU A	45 152.592	12.203 -9.694 1.00 0.00
ATOM 618	0	LEU A	45 152.501	11.623 -8.612 1.00 0.00
ATOM 619	CB	LEU A	45 154.011	10.504 -10.858 1.00 0.00
ATOM 620	CG	LEU A	45 154.560	9.704 -9.674 1.00 0.00
ATOM 621	CD1	LEU A	45 154.219	8.227 -9.821 1.00 0.00
ATOM 622	CD2	LEU A	45 156.066	9.899 -9.551 1.00 0.00
ATOM 623	Н	LEU A	45 155.289	12.247 -9.096 1.00 0.00
ATOM 624	HA	LEU A	45 153.640	12.503 -11.528 1.00 0.00
ATOM 625	1HB	LEU A	45 153.060	10.079 -11.144 1.00 0.00
ATOM 626	2HB	LEU A	45 154.698	10.399 -11.684 1.00 0.00
ATOM 627	HG	LEU A	45 154.101	10.062 -8.764 1.00 0.00
ATOM 628	1HD	1 LEU A	45 153.622	8.081 -10.710 1.00 0.00
ATOM 629	2HD	1 LEU A	45 153.661	7.900 -8.956 1.00 0.00
ATOM 630	3HD	1 LEU A	45 155.130	7.652 -9.900 1.00 0.00
ATOM 631	1HD	2 LEU A	45 156.572	8.983 -9.824 1.00 0.00
ATOM 632	2HD	2 LEU A	45 156.312	2 10.155 -8.530 1.00 0.00
ATOM 633	3HD	2 LEU A	45 156.383	3 10.694 -10.208 1.00 0.00
ATOM 634	N	ASN A	46 151.656	3 13.030 -10.149 1.00 0.00
ATOM 635	CA	ASN A	46 150.449	9 13.299 -9.377 1.00 0.00
ATOM 636	С	ASN A	46 149.512	2 12.098 -9.414 1.00 0.00
ATOM 637	0	ASN A	46 148.893	3 11.810 -10.438 1.00 0.00

ATOM 638	CB	ASN A	46 149.736	14.537	-9.925 1.00 0.00
ATOM 639	CG	ASN A	46 148.974	15.289	-8.852 1.00 0.00
ATOM 640	OD1	ASN A	46 147.746	15.375	-8.891 1.00 0.00
ATOM 641	ND2	ASN A	46 149.700	15.838	-7.884 1.00 0.00
ATOM 642	H	ASN A	46 151.778	13.465 -	-11.018 1.00 0.00
ATOM 643	HA	ASN A	46 150.742	13.484	-8.355 1.00 0.00
ATOM 644	1HB	ASN A	46 150.466	15.205 -	-10.356 1.00 0.00
ATOM 645	2HB	ASN A	46 149.038	14.232 -	-10.691 1.00 0.00
ATOM 646	1HD2	ASN A	46 150.673	15.727	-7.917 1.00 0.00
ATOM 647	2HD2	ASN A	46 149.233	16.329	-7.178 1.00 0.00
ATOM 648	N	GLU A	47 149.415	11.401	-8.288 1.00 0.00
ATOM 649	CA	GLU A	47 148.555	10.230	-8.183 1.00 0.00
ATOM 650	С	GLU A	47 148.375	9.820	-6.726 1.00 0.00
ATOM 651	0	GLU A	47 149.348	9.519	-6.034 1.00 0.00
ATOM 652	CB	GLU A	47 149.138	9.063	-8.985 1.00 0.00
ATOM 653	CG	GLU A	47 150.653	8.959	-8.902 1.00 0.00
ATOM 654	CD	GLU A	47 151.235	8.068	-9.981 1.00 0.00
ATOM 655	OE1	GLU A	47 151.350	8.531	-11.134 1.00 0.00
ATOM 656	OE2	GLU A	47 151.575	6.905	-9.672 1.00 0.00
ATOM 657	H	GLU A	47 149.935	11.682	-7.507 1.00 0.00
ATOM 658	HA	GLU A	47 147.590	10.490	-8.592 1.00 0.00
ATOM 659	1HB	GLU A	47 148.715	8.141	-8.616 1.00 0.00
ATOM 660	2HB	GLU A	47 148.864	9.183	-10.022 1.00 0.00
ATOM 661	1HG	GLU A	47 151.075	9.946	-9.006 1.00 0.00
ATOM 662	2HG	GLU A	47 150.922	8.554	-7.937 1.00 0.00
ATOM 663	N	VAL A	48 147.130	9.802	-6.264 1.00 0.00
ATOM 664	CA	VAL A	48 146.839	9.420	-4.889 1.00 0.00
ATOM 665	С	VAL A	48 147.232	7.969	-4.639 1.00 0.00
ATOM 666	0	VAL A	48 146.502	7.047	-5.001 1.00 0.00

ATOM	667	CB	VAL A	48	145.346	9.605	-4.557	1.00	0.00
ATOM	668	CG1	VAL A	48	145.100	9.395	-3.071	1.00	0.00
ATOM	669	CG2	VAL A	48	144.867	10.980	-4.996	1.00	0.00
ATOM	670	Н	VAL A	48	146.393	10.047	-6.862	1.00	0.00
ATOM	671	HA	VAL A	48	147.417	10.058	-4.236	1.00	0.00
ATOM	672	ΗВ	VAL A	48	144.783	8.860	-5.100	1.00	0.00
ATOM	673	1HG1	VAL A	48	144.082	9.666	-2.834	1.00	0.00
ATOM	674	2HG1	VAL A	48	145.780	10.014	-2.503	1.00	0.00
ATOM	675	3HG1	VAL A	48	145.265	8.358	-2.821	1.00	0.00
ATOM	676	1HG2	VAL A	48	145.704	11.662	-5.017	1.00	0.00
ATOM	677	2HG2	VAL A	48	144.125	11.342	-4.301	1.00	0.00
ATOM	678	3HG2	VAL A	48	144.433	10.912	-5.983	1.00	0.00
ATOM	679	N	LEU A	49	148.392	7.774	-4.021	1.00	0.00
ATOM	680	CA	LEU A	49	148.884	6.434	-3.727	1.00	0.00
ATOM	681	С	LEU A	49	148.782	6.135	-2.237	1.00	0.00
ATOM	682	0	LEU A	49	149.437	6.780	-1.418	1.00	0.00
ATOM	683	CB	LEU A	49	150.333	6.286	-4.190	1.00	0.00
ATOM	684	CG	LEU A	49	150.544	6.396	-5.702	1.00	0.00
ATOM	685	CD1	LEU A	49	151.921	6.965	-6.009	1.00	0.00
ATOM	686	CD2	LEU A	49	150.367	5.038	-6.363	1.00	0.00
ATOM	687	Н	LEU A	A 49	148.932	8.549	-3.758	1.00	0.00
ATOM	688	HA	LEU A	4 49	148.269	5.729	-4.266	1.00	0.00
ATOM	689	1HB	LEU A	A 49	150.924	7.053	-3.709	1.00	0.00
ATOM	690	2HB	LEU A	A 49	150.696	5.322	-3.869	1.00	0.00
ATOM	691	HG	LEU A	A 49	149.806	7.068	-6.114	1.00	0.00
ATOM	692	1HD1	LEU A	A 49	151.845	8.033	-6.150	1.00	0.00
ATOM	693	2HD1	LEU A	A 49	152.306	6.509	-6.908	1.00	0.00
ATOM	694	3HD1	LEU A	A 49	152.588	6.757	-5.186	1.00	0.00
ATOM	695	1HD2	LEU A	A 49	151.056	4.331	-5.924	1.00	0.00

ATOM 696	2HD2	LEU A	49 150.566	5.123	-7.421 1.00 0.00
ATOM 697	3HD2	LEU A	49 149.354	4.694	-6.214 1.00 0.00
ATOM 698	N	ALA A	50 147.954	5.157	-1.890 1.00 0.00
ATOM 699	CA	ALA A	50 147.767	4.778	-0.498 1.00 0.00
ATOM 700	C	ALA A	50 148.728	3.663	-0.099 1.00 0.00
ATOM 701	0	ALA A	50 148.645	2.546	-0.611 1.00 0.00
ATOM 702	CB	ALA A	50 146.329	4.352	-0.254 1.00 0.00
ATOM 703	Н	ALA A	50 147.457	4.680	-2.588 1.00 0.00
ATOM 704	HA	ALA A	50 147.968	5.649	0.110 1.00 0.00
ATOM 705	1HB	ALA A	50 146.304	3.578	0.500 1.00 0.00
ATOM 706	2HB	ALA A	50 145.905	3.973	-1.172 1.00 0.00
ATOM 707	ЗНВ	ALA A	50 145.753	5.201	0.084 1.00 0.00
ATOM 708	N	GLY A	51 149.639	3.971	0.818 1.00 0.00
ATOM 709	CA	GLY A	51 150.601	2.984	1.269 1.00 0.00
ATOM 710	C	GLY A	51 149.968	1.910	2.133 1.00 0.00
ATOM 711	0	GLY A	51 149.673	2.142	3.305 1.00 0.00
ATOM 712	Н	GLY A	51 149.657	4.877	1.191 1.00 0.00
ATOM 713	1HA	GLY A	51 151.053	2.516	0.406 1.00 0.00
ATOM 714	2HA	GLY A	51 151.371	3.482	1.839 1.00 0.00
ATOM 715	N	LEU A	52 149.760	0.733	1.554 1.00 0.00
ATOM 716	CA	LEU A	52 149.158	-0.379	2.279 1.00 0.00
ATOM 717	С	LEU A	52 150.226	-1.227	2.962 1.00 0.00
ATOM 718	0	LEU A	52 151.311	-1.435	2.418 1.00 0.00
ATOM 719	CB	LEU A	52 148.331	-1.247	1.329 1.00 0.00
ATOM 720	CG	LEU A	52 147.092	-0.567	0.742 1.00 0.00
ATOM 721	CD1	LEU A	52 146.492	-1.417	-0.367 1.00 0.00
ATOM 722	CD2	LEU A	52 146.064	-0.305	1.832 1.00 0.00
ATOM 723	Н	LEU A	52 150.018	0.609	0.617 1.00 0.00
ATOM 724	HA	LEU A	52 148.505	0.033	3.035 1.00 0.00

ATOM 7	25	1HB	LEU	A	52	148.96	8 -1.	558	0.513	1.00	0.00
ATOM 7	26	2HB	LEU	A	52	143.01	0 –2.	127	1.866	1.00	0.00
ATOM 7	27	HG	LEU	A	52	147.38	0 0.	383	0.317	1.00	0.00
ATOM 7	28	1HD1	LEU	A	52	146.89	6 -1.	104	-1.319	1.00	0.00
ATOM 7	29	2HD1	LEU	A	52	145.42	0 -1.	294	-0.374	1.00	0.00
ATOM 7	30	3HD1	LEU	A	52	146.73	s6 −2 .	456	-0.197	1.00	0.00
ATOM 7	31	1HD2	LEU	A	52	146.17	′1 –1.	044	2.613	1.00	0.00
ATOM 7	32	2HD2	LEU	A	52	145.07	1 -0.	367	1.412	1.00	0.00
ATOM 7	'33 ·	3HD2	LEU	A	52	146.22	20 0.	680	2.245	1.00	0.00
ATOM 7	' 34	N	GLU	A	53	149.9	11 –1.	716	4.157	1.00	0.00
ATOM 7	'35	CA	GLU	A	53	150.84	12 –2.	542	4.916	1.00	0.00
ATOM 7	736	C	GLU	A	53	150.33	37 –3.	977	5.018	1.00	0.00
ATOM 7	737	0	GLU	A	53	149.3	66 –4.	. 256	5.720	1.00	0.00
ATOM 7	738	CB	GLU	A	53	151.0	49 –1.	. 961	6.316	1.00	0.00
ATOM 7	739	CG	GLU	A	53	152.0	34 -2.	. 750	7.163	1.00	0.00
ATOM 7	740	CD	GLU	Α	53	151.5	87 –2	. 881	8.606	1.00	0.00
ATOM 7	741	0E1	GLU	A	53	152.2	98 –2	. 368	9.497	1.00	0.00
ATOM '	742	0E2	GLU	A	53	150.5	28 –3	. 497	8.845	1.00	0.00
ATOM '	743	H	GLU	A	53	149.0	31 –1	.515	4.539	1.00	0.00
ATOM '	744	HA	GLU	A	53	151.7	87 –2	.541	4.393	1.00	0.00
ATOM '	745	1HB	GLU	Α	53	151.4	16 –0	. 950	6.224	1.00	0.00
ATOM	746	2HB	GLU	Α	53	150.0	99 –1	. 944	6.830	1.00	0.00
ATOM	747	1HG	GLU	Α	53	152.1	.38 –3	. 739	6.743	1.00	0.00
ATOM	748	2HG	GLU	Α	53	152.9	90 –2	2.248	7. 141	1.00	0.00
ATOM	749	N	LEU	A	54	151.0	03 -4	. 885	4.310	1.00	0.00
ATOM	750	CA	LEU	J A	54	150.6	5 2 0 –6	. 292	4.319	1.00	0.00
ATOM	751	С	LEU	J A	54	150.8	336 -6	5.904	5.700	1.00	0.00
ATOM	752	0	LEU	JA	54	151.8	871 –6	6.692	6.329	1.00	0.00
ATOM	753	CB	LEU	J A	54	151.4	123 -7	7.067	3. 273	3 1.00	0.00

ATOM 7	754	CG	LEU A	54	151.413	-6.460	1.869 1.00 0.00
ATOM 7	755	CD1	LEU A	54	152.554	-7.023	1.036 1.00 0.00
ATOM '	756	CD2	LEU A	54	150.076	-6.717	1.189 1.00 0.00
ATOM '	757	Н	LEU A	54	151.769	-4.601	3.768 1.00 0.00
ATOM	758	НА	LEU A	54	149.571	-6.352	4.072 1.00 0.00
ATOM	7 59	1HB	LEU A	54	152.448	-7.128	3.610 1.00 0.00
ATOM	760	2HB	LEU A	54	151.022	-8.068	3.211 1.00 0.00
ATOM	761	HG	LEU A	54	151.551	-5.392	1.944 1.00 0.00
ATOM	762	1HD1	LEU A	54	152.684	-8.071	1.266 1.00 0.00
ATOM	763	2HD1	LEU A	54	153.463	-6.489	1.263 1.00 0.00
ATOM	764	3HD1	LEU A	54	152.323	-6.911	-0.013 1.00 0.00
ATOM	765	1HD2	LEU A	54	149.629	-7.612	1.599 1.00 0.00
ATOM	766	2HD2	LEU A	54	150.230	-6.846	0.128 1.00 0.00
ATOM	767	3HD2	LEU A	54	149.419	-5.877	1.357 1.00 0.00
ATOM	768	N	GLU A	55	149.850	-7.665	6.164 1.00 0.00
ATOM	769	CA	GLU A	55	149.930	-8.310	7.469 1.00 0.00
ATOM	770	С	GLU A	55	151.044	-9.351	7.494 1.00 0.00
ATOM	771	0	GLU A	55	151.685	-9.565	8.524 1.00 0.00
ATOM	772	CB	GLU A	55	148.594	-8.967	7.822 1.00 0.00
ATOM	773	CG	GLU A	55	5 147.552	-7.987	8.337 1.00 0.00
ATOM	774	CD	GLU A	. 55	5 146.137	-8.398	7.975 1.00 0.00
ATOM	775	0E1	GLU A	. 58	5 145.968	-9.127	6.975 1.00 0.00
ATOM	776	0E2	GLU A	. 5	5 145.200	-7.990	8.692 1.00 0.00
ATOM	777	Н	GLU A	5	5 149.048	-7.797	5.615 1.00 0.00
ATOM	778	HA	GLU A	5	5 150.150	-7.547	8.202 1.00 0.00
ATOM	779	1HB	GLU A	5	5 148.199	-9.448	6.939 1.00 0.00
ATOM	780	2HB	GLU A	1 5	5 148.763	-9.712	8.584 1.00 0.00
ATOM	781	1HG	GLU A	A 5	5 147.630	-7.930	9.412 1.00 0.00
ATON	1 782	2HG	GLU A	A 5	5 147.749	-7.015	7.910 1.00 0.00

ATOM 783	N	ASP A	56 151.269 -9.997	6 356 1 00 0 00
ATOM 784	CA	ASP A	56 152.306 -11.017	
ATOM 785	С	ASP A	56 153.580 -10.435	5.642 1.00 0.00
ATOM 786	0	ASP A	56 153.529 -9.483	4.864 1.00 0.00
ATOM 787	CB	ASP A	56 151.812 -12.189	5.397 1.00 0.00
ATOM 788	CG	ASP A	56 150.930 -13.140	6.180 1.00 0.00
ATOM 789	OD1	ASP A	56 149.691 -13.034	6.064 1.00 0.00
ATOM 790	0D2	ASP A	56 151.478 -13.993	6.910 1.00 0.00
ATOM 791	H	ASP A	56 150.725 -9.784	5.569 1.00 0.00
ATOM 792	HA	ASP A	56 152.526 -11.374	7.243 1.00 0.00
ATOM 793	1HB	ASP A	56 151.244 -11.805	4.563 1.00 0.00
ATOM 794	2HB	ASP A	56 152.664 -12.739	5.024 1.00 0.00
ATOM 795	N	GLU A	57 154.719 -11.014	6.006 1.00 0.00
ATOM 796	CA	GLU A	57 156.006 -10.552	5.498 1.00 0.00
ATOM 797	С	GLU A	57 156.353 -11.245	4.184 1.00 0.00
ATOM 798	0	GLU A	57 156.738 -12.414	4.170 1.00 0.00
ATOM 799	СВ	GLU A	57 157.107 -10.810	6.529 1.00 0.00
ATOM 800	CG	GLU A	57 157.130 -9.795	7.660 1.00 0.00
ATOM 801	CD	GLU A	57 158.393 -9.882	8.496 1.00 0.00
ATOM 802	OE1	GLU A	57 158.992 -10.976	8.553 1.00 0.00
ATOM 803	0E2	GLU A	57 158.782 -8.856	9.092 1.00 0.00
ATOM 804	H	GLU A	57 154.694 -11.769	6.630 1.00 0.00
ATOM 805	HA	GLU A	57 155.932 -9.490	5.323 1.00 0.00
ATOM 806	1HB	GLU A	57 156.960 -11.791	6.958 1.00 0.00
ATOM 807	2HB	GLU A	57 158.064 -10.784	6.031 1.00 0.00
ATOM 808	1HG	GLU A	57 157.065 -8.803	7.238 1.00 0.00
ATOM 809	2HG	GLU A	57 156.278 -9.969	8.301 1.00 0.00
ATOM 810	N	CYS A	58 156.214 -10.515	3.082 1.00 0.00
ATOM 811	CA	CYS A	58 156.513 -11.058	1.762 1.00 0.00

ATOM	812	С	CYS A	58	157.824	-10.492	1.225	1.00	0.00
ATOM	813	0	CYS A	58	157.973	-9.279	1.077	1.00	0.00
ATOM	814	CB	CYS A	58	155.374	-10.750	0.790	1.00	0.00
ATOM	815	SG	CYS A	58	155.604	-11.445	-0.862	1.00	0.00
ATOM	816	Н	CYS A	58	155.904	-9.589	3.158	1.00	0.00
ATOM	817	HA	CYS A	58	156.612	-12.129	1.860	1.00	0.00
ATOM	818	1HB	CYS A	58	154.453	-11.150	1.188	1.00	0.00
ATOM	819	2НВ	CYS A	58	155.279	-9.678	0.687	1.00	0.00
ATOM	820	HG	CYS A	58	156.540	-11.627	-0.979	1.00	0.00
ATOM	821	N	ALA A	1 59	158.770	-11.378	0.933	1.00	0.00
ATOM	822	CA	ALA A	A 59	160.067	-10.966	0.411	1.00	0.00
ATOM	823	C	ALA A	1 59	159.915	-10.208	-0.903	1.00	0.00
ATOM	824	0	ALA A	A 59	159.155	-10.615	-1.782	1.00	0.00
ATOM	825	CB	ALA A	A 59	160.968	-12.177	0.223	1.00	0.00
ATOM	826	H	ALA A	A 59	158.592	-12.331	1.071	1.00	0.00
ATOM	827	HA	ALA A	A 59	160.528	-10.315	1.140	1.00	0.00
ATOM	828	1HB	ALA A	A 59	160.734	-12.921	0.969	1.00	0.00
ATOM	829	2HB	ALA A	A 59	162.001	-11.877	0.326	1.00	0.00
ATOM	830	3HB	ALA A	A 59	160.811	-12.593	-0.762	1.00	0.00
ATOM	831	N	GLY A	A 60	160.643	-9.103	-1.031	1.00	0.00
MOTA	832	CA	GLY A	A 60	160.574	-8.305	-2.241	1.00	0.00
ATOM	833	С	GLY A	A 60	160.044	-6.908	-1.985	1.00	0.00
ATOM	834	0	GLY A	A 60	160.381	-5.967	-2.703	1.00	0.00
ATOM	835	Н	GLY A	A 60	161.231	-8.827	-0.298	1.00	0.00
ATOM	836	1HA	GLY .	A 60	161.564	-8.229	-2.666	1.00	0.00
ATOM	837	2HA	GLY .	A 60	159.927	-8.799	-2.951	1.00	0.00
ATOM	838	N	CYS .	A 61	159.210	-6.773	-0.959	1.00	0.00
ATOM	839	CA	CYS .	A 61	158.631	-5.480	-0.610	1.00	0.00
ATOM	840	С	CYS .	A 61	159.598	-4.662	0.240	1.00	0.00

ATOM 84	1 0	CYS A	61 160.705	-5.109	0.542 1.00 0.00
ATOM 84	2 CB	CYS A	61 157.314	-5.675	0.143 1.00 0.00
ATOM 84	3 SG	CYS A	61 156.183	-6.848	-0.641 1.00 0.00
ATOM 84	4 H	CYS A	61 158.978	-7.560	-0.424 1.00 0.00
ATOM 84	5 HA	CYS A	61 158.435	-4.946	-1.527 1.00 0.00
ATOM 84	6 1HB	CYS A	61 157.525	-6.040	1.137 1.00 0.00
ATOM 84	7 2HB	CYS A	61 156.804	-4.725	0.215 1.00 0.00
ATOM 84	8 HG	CYS A	61 156.528	-7.057	-1.512 1.00 0.00
ATOM 84	9 N	THR A	62 159.174	-3.462	0.620 1.00 0.00
ATOM 85	O CA	THR A	62 160.003	-2.581	1.435 1.00 0.00
ATOM 85	51 C	THR A	62 159.434	-2.448	2.844 1.00 0.00
ATOM 85	52 0	THR A	62 158.454	-3.106	3.192 1.00 0.00
ATOM 85	53 CB	THR A	62 160.110	-1.201	0.784 1.00 0.00
ATOM 85	54 OG1	THR A	62 158.839	-0.580	0.714 1.00 0.00
ATOM 85	55 CG2	THR A	62 160.677	-1.243	-0.618 1.00 0.00
ATOM 85	56 H	THR A	62 158.283	-3.161	0.347 1.00 0.00
ATOM 85	57 HA	THR A	62 160.989	-3.017	1.497 1.00 0.00
ATOM 8	58 HB	THR A	62 160.758	-0.580	1.385 1.00 0.00
ATOM 8	59 HG1	THR A	62 158.243	-1.125	0.195 1.00 0.00
ATOM 8	60 1HG	2 THR A	62 160.591	-2.245	-1.011 1.00 0.00
ATOM 8	61 2HG	2 THR A	62 161.718	-0.954	-0.595 1.00 0.00
ATOM 8	62 3HG	2 THR A	62 160.128	-0.561	-1.250 1.00 0.00
ATOM 8	63 N	ASP A	63 160.056	-1.594	3.649 1.00 0.00
ATOM 8	64 CA	ASP A	63 159.612	-1.375	5.021 1.00 0.00
8 MOTA	65 C	ASP A	63 158.866	-0.050	5.147 1.00 0.00
ATOM 8	66 0	ASP A	63 158.935	0.616	6.180 1.00 0.00
ATOM 8	67 CB	ASP A	63 160.806	-1.393	5.976 1.00 0.00
ATOM 8	68 CG	ASP A	63 161.904	-0.439	5.547 1.00 0.00
ATOM 8	69 OD1	ASP A	63 162.936	-0.917	5.028 1.00 0.00

ATOM S	870	OD2	ASP	A	63	161.732	0.784	5.729	1.00	0.00
ATOM 8	871	Н	ASP	A	63	160.832	2 -1.098	3.314	1.00	0.00
ATOM 3	872	HA	ASP	A	63	158.940	-2.178	5.284	1.00	0.00
ATOM	873	1HB	ASP	A	63	160.475	5 -1.110	6.963	1.00	0.00
ATOM	874	2HB	ASP	A	63	161.216	5 -2.393	6.011	1.00	0.00
ATOM	875	N	GLY	A	64	158. 156	0.325	4.089	1.00	0.00
ATOM	876	CA	GLY	A	64	157.408	3 1.569	4.101	1.00	0.00
ATOM	877	С	GLY	A	64	158. 144	2.695	3.402	1.00	0.00
ATOM	878	0	GLY	Α	64	158.130	3.836	3.864	1.00	0.00
ATOM	879	Н	GLY	A	64	158. 138	8 -0.246	3.293	1.00	0.00
ATOM	880	1HA	GLY	A	64	156.46	0 1.412	3.608	1.00	0.00
ATOM	881	2HA	GLY	A	64	157. 22	5 1.856	5.126	1.00	0.00
ATOM	882	N	THR	A	65	158.78	7 2.375	2.284	1.00	0.00
ATOM	883	CA	THR	A	65	159.53	2 3.367	1.519	1.00	0.00
ATOM	884	С	THR	A	65	159.12	1 3.343	0.051	1.00	0.00
ATOM	885	0	THR	A	65	159.27	6 2.330	-0.631	1.00	0.00
ATOM	886	CB	THR	A	65	161.03	6 3.116	1.644	1.00	0.00
ATOM	887	0G1	THR	A	65	161.30	0 1.733	1.811	1.00	0.00
ATOM	888	CG2	THR	A	65	161.67	0 3.849	2.806	1.00	0.00
ATOM	889	Н	THR	A	65	158.76	0 1.448	1.967	1.00	0.00
ATOM	890	HA	THR	A	65	159.30	4 4.341	1.929	1.00	0.00
ATOM	891	HB	THR	A	65	161.52	2 3.447	0.738	1.00	0.00
ATOM	892	HG1	THR	Α	65	161.73	6 1.394	1.027	1.00	0.00
ATOM	893	1HG2	THR	. A	65	161.38	8 3.369	3.731	1.00	0.00
ATOM	894	2HG2	THR	Α	65	161.33	4.874	2.813	1.00	0.00
ATOM	895	3HG2	THR	. A	65	162.74	5 3.826	2.702	1.00	0.00
ATOM	896	N	PHE	A	66	158.59	7 4.466	-0.431	1.00	0.00
ATOM	897	CA	PHE	A	66	158.16	4.572	-1.819	1.00	0.00
ATOM	898	С	PHE	A	66	159.23	35 5.243	-2.672	1.00	0.00

ATOM 899	0	PHE A	66 159.380	6.465	-2.657 1.00 0.00
ATOM 900	CB	PHE A	66 156.857	5.362	-1.909 1.00 0.00
ATOM 901	CG	PHE A	66 156.098	5.124	-3.184 1.00 0.00
ATOM 902	CD1	PHE A	66 155.827	3.835	-3.613 1.00 0.00
ATOM 903	CD2	PHE A	66 155.657	6.190	-3.951 1.00 0.00
ATOM 904	CE1	PHE A	66 155.130	3.613	-4.786 1.00 0.00
ATOM 905	CE2	PHE A	66 154.959	5.974	-5.125 1.00 0.00
ATOM 906	CZ	PHE A	66 154.695	4.684	-5.542 1.00 0.00
ATOM 907	H	PHE A	66 158.499	5.240	0.162 1.00 0.00
ATOM 908	HA	PHE A	66 157.997	3.574	-2.192 1.00 0.00
ATOM 909	1HB	PHE A	66 156.218	5.082	-1.085 1.00 0.00
ATOM 910	2HB	PHE A	66 157.078	6.417	-1.844 1.00 0.00
ATOM 911	HD1	PHE A	66 156.166	2.997	-3.022 1.00 0.00
ATOM 912	HD2	PHE A	66 155.863	7.198	-3.626 1.00 0.00
ATOM 913	HE1	PHE A	66 154.926	2.603	-5.111 1.00 0.00
ATOM 914	HE2	PHE A	66 154.621	6.812	-5.715 1.00 0.00
ATOM 915	HZ	PHE A	66 154.150	4.514	-6.459 1.00 0.00
ATOM 916	N	ARG A	67 159.983	4.435	-3.417 1.00 0.00
ATOM 917	CA	ARG A	67 161.042	4.949	-4.278 1.00 0.00
ATOM 918	С	ARG A	67 162.083	5.713	-3.465 1.00 0.00
ATOM 919	. 0	ARG A	67 162.723	6.636	-3.969 1.00 0.00
ATOM 920	CB	ARG A	67 160.453	5.860	-5.357 1.00 0.00
ATOM 921	CG	ARG A	67 159.223	5.281	-6.038 1.00 0.00
ATOM 922	CD	ARG A	67 158.382	6.368	-6.687 1.00 0.00
ATOM 923	NE	ARG A	67 157.338	5.813	-7.546 1.00 0.00
ATOM 924	CZ	ARG A	67 157.567	5.297	-8.752 1.00 0.00
ATOM 925	NH1	ARG A	67 158.799	5.263	-9.244 1.00 0.00
ATOM 926	NH2	ARG A	67 156.561	4.814	-9.466 1.00 0.00
ATOM 927	H	ARG A	67 159.819	3.469	-3.387 1.00 0.00

ATOM 928	HA	ARG A	67 161.521	4.107	-4.753 1.00 0.00
ATOM 929	1HB	ARG A	67 160.177	6.802	-4.906 1.00 0.00
ATOM 930	2HB	ARG A	67 161.205	6.037	-6.112 1.00 0.00
ATOM 931	1HG	ARG A	67 159.539	4.582	-6.797 1.00 0.00
ATOM 932	2HG	ARG A	67 158.623	4.768	-5.300 1.00 0.00
ATOM 933	1HD	ARG A	67 157.919	6.959	-5.910 1.00 0.00
ATOM 934	2HD	ARG A	67 159.027	6.998	-7.281 1.00 0.00
ATOM 935	HE	ARG A	67 156.419	5.826	-7.206 1.00 0.00
ATOM 936	1HH1	ARG A	67 159.562	5.625	-8.709 1.00 0.00
ATOM 937	2HH1	ARG A	67 158.964	4.873	-10.149 1.00 0.00
ATOM 938	1HH2	ARG A	67 155.630	4.837	-9.101 1.00 0.00
ATOM 939	2HH2	ARG A	67 156.731	4.426	-10.372 1.00 0.00
ATOM 940	N	GLY A	68 162.246	5.323	-2.205 1.00 0.00
ATOM 941	CA	GLY A	68 163.211	5.983	-1.344 1.00 0.00
ATOM 942	C	GLY A	68 162.572	7.006	-0.425 1.00 0.00
ATOM 943	0	GLY A	68 163.149	7.375	0.598 1.00 0.00
ATOM 944	H	GLY A	68 161.708	4.581	-1.856 1.00 0.00
ATOM 945	1HA	GLY A	68 163.709	5.237	-0.743 1.00 0.00
ATOM 946	2HA	GLY A	68 163.946	6.480	-1.961 1.00 0.00
ATOM 947	N	THR A	69 161.378	7.467	-0.787 1.00 0.00
ATOM 948	CA	THR A	69 160.666	8.455	0.015 1.00 0.00
ATOM 949	С	THR A	69 159.834	7.778	1.100 1.00 0.00
ATOM 950	0	THR A	69 158.714	7.331	0.851 1.00 0.00
ATOM 951	CB	THR A	69 159.763	9.310	-0.875 1.00 0.00
ATOM 952	OG1	THR A	69 160.491	9.830	-1.974 1.00 0.00
ATOM 953	CG2	THR A	69 159.137	10.479	-0.146 1.00 0.00
ATOM 954	H	THR A	69 160.967	7.138	-1.614 1.00 0.00
ATOM 955	HA	THR A	69 161.399	9.091	0.486 1.00 0.00
ATOM 956	HB	THR A	69 158.964	8.693	-1.259 1.00 0.00

ATOM S	957	HG1	THR	A	69	161.267	10.293	-1.655	1.00	0.00
ATOM S	958	1HG2	THR	A	69	158.646	11.126	-0.857	1.00	0.00
ATOM S	959	2HG2	THR	A	69	159.906	11.033	0.374	1.00	0.00
ATOM	960	3HG2	THR	A	69	158.413	10.113	0.567	1.00	0.00
ATOM :	961	N	ARG	A	70	160.389	7.706	2.306	1.00	0.00
ATOM	962	CA	ARG	A	70	159.699	7.084	3.429	1.00	0.00
ATOM	963	С	ARG	A	70	158.562	7.971	3.925	1.00	0.00
ATOM	964	0	ARG	A	70	158.773	9.132	4.275	1.00	0.00
ATOM	965	CB	ARG	A	70	160.680	6.807	4.569	1.00	0.00
ATOM	966	CG	ARG	A	70	160.151	5.828	5.603	1.00	0.00
ATOM	967	CD	ARG	A	70	160.885	5.964	6.927	1.00	0.00
ATOM	968	NE	ARG	A	70	162.332	5.847	6.766	1.00	0.00
ATOM	969	CZ	ARG	A	70	163.172	5.583	7.765	1.00	0.00
ATOM	970	NH1	ARG	A	70	162.711	5.408	8.998	1.00	0.00
ATOM	971	NH2	ARG	A	70	164.473	5.494	7.532	1.00	0.00
ATOM	972	H	ARG	A	70	161.285	8.080	2.443	1.00	0.00
ATOM	973	HA	ARG	A	70	159.286	6.147	3.086	1.00	0.00
ATOM	974	1HB	ARG	A	70	161.592	6.402	4.154	1.00	0.00
ATOM	975	2HB	ARG	Α	70	160.906	7.738	5.069	1.00	0.00
ATOM	976	1HG	ARG	Α	70	159.102	6.021	5.764	1.00	0.00
ATOM	977	2HG	ARG	A	70	160.282	4.821	5.232	1.00	0.00
ATOM	978	1HD	ARG	A	70	160.658	6.931	7.352	1.00	0.00
ATOM	979	2HD	ARG	A	70	160.543	5.189	7.596	1.00	0.00
MOTA	980	HE	ARG	A	70	162.699	5.971	5.866	1.00	0.00
MOTA	981	1HH1	ARG	A	70	161.731	5.474	9. 181	1.00	0.00
ATOM	982	2HH1	ARG	A	70	163.347	5.210	9.744	1.00	0.00
ATOM	983	1HH2	ARG	A	70	164.825	5.624	6.604	1.00	0.00
ATOM	984	2HH2	ARG	A	70	165.104	5. 296	8. 282	1.00	0.00
ATOM	985	N	TYF	R A	71	157.354	7.415	3.953	1.00	0.00

ATOM	986	CA	TYR A	71	156.182	8.156	4.406	1.00	0.00
ATOM	987	C	TYR A	71	155.796	7.749	5.824	1.00	0.00
ATOM	988	0	TYR A	71	155.470	8.595	6.657	1.00	0.00
ATOM	989	CB	TYR A	71	155.007	7.920	3.457	1.00	0.00
ATOM	990	CG	TYR A	71	155.195	8.551	2.094	1.00	0.00
ATOM	991	CD1	TYR A	71	155. 167	9.930	1.937	1.00	0.00
ATOM	992	CD2	TYR A	71	155.397	7.766	0.966	1.00	0.00
ATOM	993	CE1	TYR A	71	155.337	10.510	0.693	1.00	0.00
ATOM	994	CE2	TYR A	71	155.568	8.337	-0.280	1.00	0.00
ATOM	995	CZ	TYR A	71	155.537	9.710	-0.411	1.00	0.00
ATOM	996	ОН	TYR A	71	155.707	10.284	-1.650	1.00	0.00
ATOM	997	H	TYR A	71	157.249	6.486	3.661	1.00	0.00
ATOM	998	HA	TYR A	71	156.432	9.207	4.401	1.00	0.00
ATOM	999	1HB	TYR A	71	154.875	6.859	3.315	1.00	0.00
ATOM	1000	2HB	TYR A	71	154.111	8.336	3.895	1.00	0.00
ATOM	1001	HD1	TYR A_{-}	71	155.010	10.555	2.804	1.00	0.00
ATOM	1002	HD2	TYR A	71	155.420	6.691	1.071	1.00	0.00
ATOM	1003	HE1	TYR A	71	155.313	11.585	0.592	1.00	0.00
ATOM	1004	HE2	TYR A	71	155.725	7.710	-1.145	1.00	0.00
ATOM	1005	ШН	TYR A	71	156.632	10.235	-1.902	1.00	0.00
ATOM	1006	N	PHE A	72	155.835	6.447	6.092	1.00	0.00
ATOM	1007	CA	PHE A	72	155.488	5.928	7.409	1.00	0.00
ATOM	1008	С	PHE A	72	156.491	4.871	7.858	1.00	0.00
ATOM	1009	0	PHE A	72	157.311	4.403	7.068	1.00	0.00
ATOM	1010	CB	PHE A	72	154.079	5.335	7.393	1.00	0.00
ATOM	1011	CG	PHE A	72	153.863	4.329	6.298	1.00	0.00
ATOM	1012	CD1	PHE A	72	154.015	2.974	6.546	1.00	0.00
ATOM	1013	CD2	PHE A	72	153.508	4.738	5.023	1.00	0.00
ATOM	1014	CE1	PHE A	72	153.817	2.046	5.541	1.00	0.00

ATOM 10	15 CE2	PHE A	72 153.309	3.816	4.015 1.00 0.00
ATOM 10	16 CZ	PHE A	72 153.463	2.468	4.274 1.00 0.00
ATOM 10)17 H	PHE A	72 156.102	5.823	5.386 1.00 0.00
ATOM 10)18 HA	PHE A	72 155.514	6.751	8.107 1.00 0.00
ATOM 10)19 1HB	PHE A	72 153.890	4.844	8.336 1.00 0.00
ATOM 10)20 2HB	PHE A	72 153.361	6.132	7.260 1.00 0.00
ATOM 10	021 HD1	PHE A	72 154.290	2.644	7.537 1.00 0.00
ATOM 10)22 HD2	PHE A	72 153.387	5.793	4.820 1.00 0.00
ATOM 10)23 HE1	PHE A	72 153.939	0.993	5.746 1.00 0.00
ATOM 10	024 HE2	PHE A	72 153.033	4.148	3.024 1.00 0.00
ATOM 10	025 HZ	PHE A	72 153.308	1.744	3.487 1.00 0.00
ATOM 1	026 N	THR A	73 156.422	4.500	9.133 1.00 0.00
ATOM 1	027 CA	THR A	73 157.326	3.498	9.688 1.00 0.00
ATOM 1	028 C	THR A	73 156.594	2.182	9.932 1.00 0.00
ATOM 1	029 0	THR A	73 155.767	2.079	10.838 1.00 0.00
ATOM 1	030 CB	THR A	73 157.941	4.003	10.993 1.00 0.00
ATOM 1	031 0G1	THR A	73 156.941	4.531	11.848 1.00 0.00
ATOM 1	032 CG2	2 THR A	73 158.983	5.080	10.785 1.00 0.00
ATOM 1	033 H	THR A	73 155.748	4.909	9.714 1.00 0.00
ATOM 1	034 HA	THR A	73 158.114	3.329	8.970 1.00 0.00
ATOM 1	.035 HB	THR A	73 158.417	3.176	11.499 1.00 0.00
ATOM 1	.036 HG	I THR A	73 156.596	5.344	11.472 1.00 0.00
ATOM 1	.037 1H0	G2 THR A	73 159.375	5.392	11.742 1.00 0.00
ATOM 1	.038 2H0	G2 THR A	73 158.532	5.927	10.289 1.00 0.00
ATOM 1	1039 3H0	G2 THR A	73 159.786	4.692	10.177 1.00 0.00
ATOM 1	1040 N	CYS A	74 156.905	1.178	9.118 1.00 0.00
ATOM 1	1041 CA	CYS A	74 156.276	-0.132	9.247 1.00 0.00
ATOM 1	1042 C	CYS A	74 157.327	-1.238	9.278 1.00 0.00
ATOM 1	1043 0	CYS A	74 158.514	-0.986	9.073 1.00 0.00

ATOM 3	1044	CB	CYS A	74	155.305	-0.369	8.090	1.00	0.00
ATOM :	1045	SG	CYS A	74	153.619	0.197	8.415	1.00	0.00
ATOM 3	1046	H	CYS A	74	157.572	1.322	8.415	1.00	0.00
ATOM :	1047	HA	CYS A	74	155.727	-0.147	10.176	1.00	0.00
ATOM :	1048	1HB	CYS A	74	155.662	0.153	7.215	1.00	0.00
ATOM	1049	2HB	CYS A	74	155.261	-1.428	7.877	1.00	0.00
ATOM	1050	HG	CYS A	74	153.098	0.048	7.623	1.00	0.00
ATOM	1051	N	ALA A	75	156.880	-2.462	9.536	1.00	0.00
ATOM	1052	CA	ALA A	75	157.781	-3.607	9.595	1.00	0.00
ATOM	1053	С	ALA A	75	158.466	-3.836	8.251	1.00	0.00
ATOM	1054	0	ALA A	75	158.120	-3.206	7.251	1.00	0.00
ATOM	1055	CB	ALA A	75	157.022	-4.854	10.021	1.00	0.00
ATOM	1056	Н	ALA A	75	155.923	-2.600	9.691	1.00	0.00
ATOM	1057	HA	ALA A	75	158.535	-3.401	10.341	1.00	0.00
ATOM	1058	1HB	ALA A	75	156.775	-5.441	9. 149	1.00	0.00
ATOM	1059	2HB	ALA A	75	156.113	-4.566	10.529	1.00	0.00
ATOM	1060	ЗНВ	ALA A	75	157.636	-5.441	10.687	1.00	0.00
ATOM	1061	N	LEU A	76	159.440	-4.741	8.235	1.00	0.00
ATOM	1062	CA	LEU A	76	160.174	-5.052	7.014	1.00	0.00
ATOM	1063	С	LEU A	76	159.372	-5.997	6.124	1.00	0.00
ATOM	1064	0	LEU A	76	158.793	-6.973	6.600	1.00	0.00
ATOM	1065	CB	LEU A	76	6 161.527	-5.679	7.353	1.00	0.00
ATOM	1066	CG	LEU A	76	6 162.600	-4.692	7.818	1.00	0.00
ATOM	1067	CD1	LEU A	76	6 163.504	-5.337	8.856	1.00	0.00
ATOM	1068	CD2	LEU A	. 76	6 163.415	-4.197	6.633	1.00	0.00
ATOM	1069	Н	LEU A	76	5 159.671	-5.210	9.064	1.00	0.00
ATOM	1070	HA	LEU A	76	6 160.339	-4.129	6.482	1.00	0.00
ATOM	1071	1HB	LEU A	. 76	6 161.376	-6.410	8. 135	1.00	0.00
ATOM	1072	2HB	LEU A	. 70	6 161.895	-6.189	6.475	1.00	0.00

ATOM 1073	HG	LEU A	76 162.121	-3.839	8.276 1.00 0.00
ATOM 1074	1HD1	LEU A	76 163.112	-5.145	9.844 1.00 0.00
ATOM 1075	2HD1	LEU A	76 164.497	-4.919	8.777 1.00 0.00
ATOM 1076	3HD1	LEU A	76 163.547	-6.401	8.686 1.00 0.00
ATOM 1077	1HD2	LEU A	76 163.394	-4.936	5.846 1.00 0.00
ATOM 1078	2HD2	LEU A	76 164.436	-4.028	6.943 1.00 0.00
ATOM 1079	3HD2	LEU A	76 162.993	-3.271	6.267 1.00 0.00
ATOM 1080	N	LYS A	77 159.343	-5.699	4.829 1.00 0.00
ATOM 1081	CA	LYS A	77 158.612	-6.522	3.872 1.00 0.00
ATOM 1082	C	LYS A	77 157.123	-6.548	4.201 1.00 0.00
ATOM 1083	0	LYS A	77 156.500	-7.610	4.224 1.00 0.00
ATOM 1084	СВ	LYS A	77 159.172	-7.946	3.859 1.00 0.00
ATOM 1085	CG	LYS A	77 160.683	-8.006	3.706 1.00 0.00
ATOM 1086	CD	LYS A	77 161.119	-7.581	2.314 1.00 0.00
ATOM 1087	CE	LYS A	77 162.513	-6.976	2.326 1.00 0.00
ATOM 1088	NZ	LYS A	77 163.560	-7.995	2.614 1.00 0.00
ATOM 1089	Н	LYS A	77 159.825	-4.908	4.510 1.00 0.00
ATOM 1090	HA	LYS A	77 158.744	-6.086	2.892 1.00 0.00
ATOM 1091	1HB	LYS A	77 158.907	-8.433	4.787 1.00 0.00
ATOM 1092	2HB	LYS A	77 158.728	-8.489	3.038 1.00 0.00
ATOM 1093	1HG	LYS A	77 161.135	-7.344	4.431 1.00 0.00
ATOM 1094	2HG	LYS A	77 161.014	-9.018	3.886 1.00 0.00
ATOM 1095	1HD	LYS A	77 161.120	-8.447	1.668 1.00 0.00
ATOM 1096	2HD	LYS A	77 160.421	-6.849	1.936 1.00 0.00
ATOM 1097	1HE	LYS A	77 162.708	-6.535	1.361 1.00 0.00
ATOM 1098	2HE	LYS A	77 162.552	-6.209	3.086 1.00 0.00
ATOM 1099	1HZ	LYS A	77 163.525	-8.270	3.616 1.00 0.00
ATOM 1100	2HZ	LYS A	77 164.502	-7.610	2.403 1.00 0.00
ATOM 1101	3HZ	LYS A	77 163.404	-8.841	2.028 1.00 0.00

ATOM 1102	N	LYS A	78 156.558	-5.373	4.456 1.00 0.00
ATOM 1103	CA	LYS A	78 155.142	-5.261	4.785 1.00 0.00
ATOM 1104	С	LYS A	78 154.602	-3.885	4.407 1.00 0.00
ATOM 1105	0	LYS A	78 153.781	-3.312	5.123 1.00 0.00
ATOM 1106	CB	LYS A	78 154.921	-5.517	6.278 1.00 0.00
ATOM 1107	CG	LYS A	78 155.477	-6.850	6.755 1.00 0.00
ATOM 1108	CD	LYS A	78 155.149	-7.097	8.218 1.00 0.00
ATOM 1109	CE	LYS A	78 153.954	-8.023	8.373 1.00 0.00
ATOM 1110	NZ	LYS A	78 153.139	-7.684	9.573 1.00 0.00
ATOM 1111	Н	LYS A	78 157.106	-4.561	4.423 1.00 0.00
ATOM 1112	HA	LYS A	78 154.610	-6.012	4.219 1.00 0.00
ATOM 1113	1HB	LYS A	78 155.400	-4.729	6.840 1.00 0.00
ATOM 1114	2HB	LYS A	78 153.861	-5.500	6.482 1.00 0.00
ATOM 1115	1HG	LYS A	78 155.046	-7.641	6.161 1.00 0.00
ATOM 1116	2HG	LYS A	78 156.550	-6.845	6.631 1.00 0.00
ATOM 1117	1HD	LYS A	78 156.005	-7.550	8.697 1.00 0.00
ATOM 1118	2HD	LYS A	78 154.926	-6.152	8.692 1.00 0.00
ATOM 1119	1HE	LYS A	78 153.332	-7.938	7.493 1.00 0.00
ATOM 1120	2HE	LYS A	78 154.309	-9.038	8.464 1.00 0.00
ATOM 1121	1HZ	LYS A	78 152.325	-8.326	9.645 1.00 0.00
ATOM 1122	2HZ	LYS A	78 152.792	-6.707	9.505 1.00 0.00
ATOM 1123	3HZ	LYS A	78 153.716	-7.775	10.433 1.00 0.00
ATOM 1124	N	ALA A	79 155.068	-3.363	3.278 1.00 0.00
ATOM 1125	CA	ALA A	79 154.633	-2.055	2.805 1.00 0.00
ATOM 1126	С	ALA A	79 154.555	-2.020	1.282 1.00 0.00
ATOM 1127	0	ALA A	79 155.578	-1.989	0.599 1.00 0.00
ATOM 1128	СВ	ALA A	79 155.571	-0.971	3.312 1.00 0.00
ATOM 1129	H	ALA A	79 155.721	-3.869	2.751 1.00 0.00
ATOM 1130	HA	ALA A	79 153.648	-1.864	3.209 1.00 0.00

ATOM :	1131	1HB	ALA A	79	156.010	-1.283	4.248	1.00 0	.00
ATOM :	1132	2HB	ALA A	79	155.017	-0.056	3.462	1.00 0	.00
ATOM :	1133	ЗНВ	ALA A	. 79	156.353	-0.802	2.586	1.00 0	.00
ATOM	1134	N	LEU A	. 80	153.334	-2.025	0.757	1.00 0	.00
ATOM	1135	CA	LEU A	. 80	153.122	-1.994	-0.685	1.00 0	.00
ATOM	1136	C	LEU A	80	152.248	-0.809	-1.081	1.00 0	.00
ATOM	1137	0	LEU A	80	151.047	-0.791	-0.810	1.00 0	0.00
ATOM	1138	CB	LEU A	80	152.476	-3.299	-1.154	1.00 0	0.00
ATOM	1139	CG	LEU A	80	152.145	-3.358	-2.647	1.00 0	0.00
ATOM	1140	CD1	LEU A	80	153.393	-3.669	-3.458	1.00 (0.00
ATOM	1141	CD2	LEU A	A 80	151.062	-4.394	-2.911	1.00 (0.00
ATOM	1142	H	LEU A	80 A	152.557	-2.050	1.353	1.00 (0.00
ATOM	1143	HA	LEU A	A 80	154.086	-1.889	-1.160	1.00 (0.00
ATOM	1144	1HB	LEU A	A 80) 153.147	-4.113	-0.923	1.00 (0.00
ATOM	1145	2HB	LEU A	A 80) 151.559	-3.442	-0.600	1.00	0.00
ATOM	1146	HG	LEU A	A 80) 151.772	-2.395	-2.964	1.00	0.00
ATOM	1147	1HD1	LEU	A 80	0 153.335	-3.169	-4.413	1.00	0.00
ATOM	1148	2HD1	LEU .	A 80	0 153.464	-4.735	-3.614	1.00	0.00
ATOM	1149	3HD1	LEU .	A 8	0 154.265	-3.325	-2.923	1.00	0.00
ATOM	1150	1HD2	LEU .	A 8	0 150.263	3 -4.270	-2.196	1.00	0.00
ATOM	1151	2HD2	LEU	A 8	0 151.481	-5.385	-2.814	1.00	0.00
ATOM	1152	3HD2	LEU	A 8	0 150.675	-4.263	-3.911	1.00	0.00
ATOM	1153	N	PHE	A 8	1 152.858	0.182	-1.724	1.00	0.00
ATOM	1154	CA	PHE	A 8	1 152.135	5 1.371	-2.158	1.00	0.00
ATOM	1155	С	PHE	A 8	1 151.374	1.103	-3.452	1.00	0.00
ATOM	1156	0	PHE	A 8	1 151.879	0.436	-4.355	1.00	0.00
ATOM	1157	CB	PHE	A 8	1 153. 104	4 2.538	-2.355	1.00	0.00
ATOM	1158	CG	PHE	A 8	153.88	3 2.888	-1.119	1.00	0.00
ATOM	1159	CD1	PHE	A 8	31 153.494	4 3.947	-0.316	1.00	0.00

ATOM :	1160	CD2	PHE A	81 155.005	2.157	-0.761 1.00 0.00
ATOM .	1161	CE1	PHE A	81 154.209	4.271	0.822 1.00 0.00
ATOM	1162	CE2	PHE A	81 155.724	2.476	0.375 1.00 0.00
ATOM	1163	CZ	PHE A	81 155.325	3.534	1.167 1.00 0.00
ATOM	1164	Н	PHE A	81 153.817	0.110	-1.911 1.00 0.00
ATOM	1165	HA	PHE A	81 151.428	1.630	-1.385 1.00 0.00
ATOM	1166	1HB	PHE A	81 153.810	2.283	-3.131 1.00 0.00
ATOM	1167	2HB	PHE A	81 152.546	3.414	-2.656 1.00 0.00
ATOM	1168	HD1	PHE A	81 152.621	4.524	-0.585 1.00 0.00
ATOM	1169	HD2	PHE A	81 155.317	1.329	-1.381 1.00 0.00
ATOM	1170	HE1	PHE A	81 153.895	5.100	1.440 1.00 0.00
ATOM	1171	HE2	PHE A	81 156.596	1.898	0.643 1.00 0.00
ATOM	1172	HZ	PHE A	81 155.884	3.785	2.056 1.00 0.00
ATOM	1173	N	VAL A	82 150.155	1.628	-3.535 1.00 0.00
ATOM	1174	CA	VAL A	82 149.324	1.445	-4.718 1.00 0.00
ATOM	1175	С	VAL A	82 148.369	2.618	-4.907 1.00 0.00
ATOM	1176	0	VAL A	82 148.190	3.437	-4.005 1.00 0.00
ATOM	1177	CB	VAL A	82 148.507	0.142	-4.635 1.00 0.00
ATOM	1178	CG1	VAL A	82 149.423	-1.069	-4.717 1.00 0.00
ATOM	1179	CG2	VAL A	82 147.682	0.111	-3.358 1.00 0.00
ATOM	1180	H	VAL A	82 149.807	2.151	-2.782 1.00 0.00
ATOM	1181	HA	VAL A	82 149.976	1.382	-5.577 1.00 0.00
ATOM	1182	HB	VAL A	82 147.830	0.111	-5.477 1.00 0.00
ATOM	1183	1HG1	VAL A	82 150.197	-0.886	-5.447 1.00 0.00
ATOM	1184	2HG1	VAL A	82 148.848	-1.936	-5.010 1.00 0.00
ATOM	1185	3HG1	VAL A	82 149.873	-1.247	-3.751 1.00 0.00
ATOM	1186	1HG2	2 VAL A	82 147.413	1.118	-3.078 1.00 0.00
MOTA	1187	2HG2	2 VAL A	82 148.261	-0.341	-2.566 1.00 0.00
MOTA	1188	3HG2	2 VAL A	82 146.784	-0.468	-3.523 1.00 0.00

ATOM	1189	N	LYS A	83 147.757	2.694	-6.084	1.00	0.00
ATOM	1190	CA	LYS A	83 146.820	3.768	-6.391	1.00	0.00
ATOM	1191	С	LYS A	83 145.576	3.672	-5.515	1.00	0.00
ATOM	1192	0	LYS A	83 144.875	2.659	-5.521	1.00	0.00
ATOM	1193	СВ	LYS A	83 146.424	3.721	-7.868	1.00	0.00
ATOM	1194	CG	LYS A	83 147.590	3.945	-8.818	1.00	0.00
ATOM	1195	CD	LYS A	83 147.222	3.577	-10.246	1.00	0.00
ATOM	1196	CE	LYS A	83 147.832	4.546	-11.246	1.00	0.00
ATOM	1197	NZ	LYS A	83 148.273	3.859	-12.490	1.00	0.00
ATOM	1198	Н	LYS A	83 147.941	2.011	-6.763	1.00	0.00
MOTA	1199	HA	LYS A	83 147.313	4.707	-6.190	1.00	0.00
MOTA	1200	1HB	LYS A	83 145.993	2.754	-8.081	1.00	0.00
ATOM	1201	2HB	LYS A	83 145.684	4.484	-8.054	1.00	0.00
ATOM	1202	1HG	LYS A	83 147.871	4.986	-8.786	1.00	0.00
ATOM	1203	2HG	LYS A	83 148.421	3.334	-8.500	1.00	0.00
ATOM	1204	1HD	LYS A	83 147.587	2.583	-10.456	1.00	0.00
ATOM	1205	2HD	LYS A	83 146.147	3.598	-10.349	1.00	0.00
ATOM	1206	1HE	LYS A	83 147.095	5.293	-11.500	1.00	0.00
ATOM	1207	2HE	LYS A	83 148.686	5.025	-10.788	1.00	0.00
ATOM	1208	1HZ	LYS A	83 149.279	3.605	-12.422	1.00	0.00
ATOM	1209	2HZ	LYS A	83 148.139	4.483	-13.310	1.00	0.00
ATOM	1210	3HZ	LYS A	83 147.717	2.991	-12.635	1.00	0.00
ATOM	1211	N	LEU A	84 145.307	4.735	-4.765	1.00	0.00
ATOM	1212	CA	LEU A	84 144.147	4.776	-3.883	1.00	0.00
ATOM	1213	С	LEU A	84 142.855	4.587	-4.673	1.00	0.00
MOTA	1214	0	LEU A	84 141.893	4.002	-4.176	1.00	0.00
ATOM	1215	CB	LEU A	84 144.108	6.105	-3.127	1.00	0.00
ATOM	1216	CG	LEU A	84 142.878	6.316	-2.242	1.00	0.00
ATOM	1217	CD1	LEU A	84 143.016	5.538	-0.942	1.00	0.00

ATOM	1218	CD2	LEU A	A 84	142.672	7.795	-1.961	1.00	0.00
ATOM	1219	H	LEU A	A 84	145.903	5.510	-4.806	1.00	0.00
ATOM	1220	HA	LEU A	A 84	144.242	3.970	-3.172	1.00	0.00
MOTA	1221	1HB	LEU A	A 84	144.989	6.165	-2.504	1.00	0.00
ATOM	1222	2HB	LEU A	A 84	144.145	6.906	-3.849	1.00	0.00
ATOM	1223	HG	LEU A	A 84	142.004	5.947	-2.760	1.00	0.00
ATOM	1224	1HD1	LEU A	A 84	142.131	5.683	-0.340	1.00	0.00
ATOM	1225	2HD1	LEU A	A 84	143.882	5.890	-0.401	1.00	0.00
ATOM	1226	3HD1	LEU A	A 84	143.134	4.486	-1.162	1.00	0.00
ATOM	1227	1HD2	LEU A	A 84	141.827	7.923	-1.300	1.00	0.00
ATOM	1228	2HD2	LEU A	A 84	142.485	8.316	-2.887	1.00	0.00
ATOM	1229	3HD2	LEU A	A 84	143.558	8.200	-1.493	1.00	0.00
ATOM	1230	N	LYS	A 85	142.843	5.085	-5.904	1.00	0.00
ATOM	1231	CA	LYS	A 85	141.670	4.971	-6.764	1.00	0.00
ATOM	1232	C	LYS	A 85	141.371	3.510	-7.086	1.00	0.00
ATOM	1233	0	LYS	A 85	140.226	3. 147	-7.355	1.00	0.00
ATOM	1234	CB	LYS	A 85	141.882	5.757	-8.059	1.00	0.00
ATOM	1235	CG	LYS .	A 85	143.234	5.509	-8.708	1.00	0.00
ATOM	1236	CD	LYS	A 85	144.209	6.639	-8.416	1.00	0.00
ATOM	1237	CE	LYS .	A 85	145.050	6.980	-9.635	1.00	0.00
ATOM	1238	NZ	LYS .	A 85	145.823	8.237	-9.443	1.00	0.00
ATOM	1239	H	LYS .	A 85	143.642	5.540	-6.244	1.00	0.00
ATOM	1240	HA	LYS .	A 85	140.829	5.389	-6.232	1.00	0.00
ATOM	1241	1HB	LYS	A 85	141.112	5.481	-8.764	1.00	0.00
ATOM	1242	2HB	LYS	A 85	141.798	6.812	-7.842	1.00	0.00
ATOM	1243	1HG	LYS	A 85	143.642	4.587	-8.325	1.00	0.00
ATOM	1244	2HG	LYS	A 85	143.099	5.429	-9.776	1.00	0.00
ATOM	1245	1HD	LYS	A 85	143.653	7.515	-8.119	1.00	0.00
ATOM	1246	2HD	LYS	A 85	144.863	6.336	-7.611	1.00	0.00

ATOM 1247	1HE	LYS A	85 145.739	6.169	-9.820 1.00 0.00
ATOM 1248	2HE	LYS A	85 144.396	7.096 -	-10.487 1.00 0.00
ATOM 1249	1HZ	LYS A	85 145.341	8.853	-8.758 1.00 0.00
ATOM 1250	2HZ	LYS A	85 145.911	8.745 -	-10.346 1.00 0.00
ATOM 1251	3HZ	LYS A	85 146.777	8.020	-9.087 1.00 0.00
ATOM 1252	N	SER A	86 142.405	2.675	-7.058 1.00 0.00
ATOM 1253	CA	SER A	86 142.248	1.255	-7.348 1.00 0.00
ATOM 1254	С	SER A	86 142.150	0.442	-6.061 1.00 0.00
ATOM 1255	0 .	SER A	86 142.547	-0.722	-6.017 1.00 0.00
ATOM 1256	CB	SER A	86 143.421	0.752	-8.193 1.00 0.00
ATOM 1257	0G	SER A	86 143.705	1.648	-9.254 1.00 0.00
ATOM 1258	Н	SER A	86 143.295	3.023	-6.838 1.00 0.00
ATOM 1259	HA	SER A	86 141.334	1.130	-7.908 1.00 0.00
ATOM 1260	1HB	SER A	86 144.298	0.663	-7.569 1.00 0.00
ATOM 1261	2HB	SER A	86 143.176	-0.214	-8.608 1.00 0.00
ATOM 1262	HG	SER A	86 144.344	1.247	-9.848 1.00 0.00
ATOM 1263	N	CYS A	87 141.618	1.064	-5.012 \cdot 1.00 \ 0.00
ATOM 1264	CA	CYS A	87 141.467	0.398	-3.724 1.00 0.00
ATOM 1265	С	CYS A	87 139.994	0.260	-3.353 1.00 0.00
ATOM 1266	0	CYS A	87 139.165	1.081	-3.747 1.00 0.00
ATOM 1267	CB	CYS A	87 142.207	1.175	-2.634 1.00 0.00
ATOM 1268	SG	CYS A	87 143.989	0.867	-2.590 1.00 0.00
ATOM 1269	Н	CYS A	87 141.319	1.992	-5.108 1.00 0.00
ATOM 1270	HA	CYS A	87 141.898	-0.588	-3.808 1.00 0.00
ATOM 1271	1HB	CYS A	87 142.062	2.233	-2.795 1.00 0.00
ATOM 1272	2HB	CYS A	87 141.802	0.904	-1.670 1.00 0.00
ATOM 1273	HG	CYS A	87 144.418	1.539	-3.125 1.00 0.00
ATOM 1274	N	ARG A	88 139.674	-0.783	-2.595 1.00 0.00
ATOM 1275	CA	ARG A	88 138.300	-1.027	-2.172 1.00 0.00

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ATOM :	1276	С	ARG A	1	88	138. 226				
ATOM	1277	0	ARG A	I	88	139. 134	-1.828	-0.067	1.00	0.00
ATOM	1278	CB	ARG A	A	88	137.728	-2.243	-2.903	1.00	0.00
ATOM	1279	CG	ARG A	A	88	137. 135	-1.911	-4.264	1.00	0.00
ATOM	1280	CD	ARG A	A	88	135.620	-1.785	-4.199	1.00	0.00
ATOM	1281	NE	ARG A	A	88	135.175	-0.413	-4.428	1.00	0.00
ATOM	1282	CZ	ARG A	A	88	135.192	0.183	-5.618	1.00	0.00
ATOM	1283	NH1	ARG A	A	88	135.631	-0.468	-6.688	1.00	0.00
ATOM	1284	NH2	ARG A	A	88	134.768	1.433	-5.740	1.00	0.00
ATOM	1285	Н	ARG .	A	88	140.378	-1.403	-2.312	1.00	0.00
ATOM	1286	HA	ARG .	A	88	137.715	-0.156	-2.427	1.00	0.00
ATOM	1287	1HB	ARG .	A	88	138.517	-2.967	-3.046	1.00	0.00
ATOM	1288	2HB	ARG .	A	88	136.953	-2.684	-2.294	1.00	0.00
ATOM	1289	1HG	ARG .	A	88	137.549	-0.974	-4.607	1.00	0.00
ATOM	1290	2HG	ARG	A	88	137.392	-2.697	-4.958	1.00	0.00
ATOM	1291	1HD	ARG	A	88	135.186	-2.424	-4.953	1.00	0.00
ATOM	1292	2HD	ARG	A	88	135.285	-2.103	-3.222	1.00	0.00
ATOM	1293	HE	ARG	A	88	134.846	0.092	-3.655	1.00	0.00
ATOM	1294	1HH1	ARG	A	88	135.952	-1.412	-6.603	1.00	0.00
ATOM	1295	2HH1	ARG	A	88	135.640	-0.016	-7.580	1.00	0.00
ATOM	1296	1HH2	ARG	A	88	134.436	1.929	-4.938	1.00	0.00
ATOM	1297	2HH2	ARG	A	88	134.780	1.881	-6.634	1.00	0.00
ATOM	1298	N	PRO	A	89	137.138	-0.787	-0.019	1.00	0.00
ATOM	1299	CA	PRO	A	89	136.954	-0.940	1.428	1.00	0.00
ATOM	1300	С	PRO	A	89	137.091	-2.390	1.877	1.00	0.00
ATOM	1301	0	PRO	A	89	136.444	-3.284	1.330	1.00	0.00
ATOM	1302	СВ	PRO	A	89	135.526	-0.441	1.664	1.00	0.00
ATOM	1303	CG	PRO	A	89	135.249	0.476	0.523	1.00	0.00
ATOM	1304	CD	PRO	A	89	136.005	-0.084	-0.649	1.00	0.00

ATOM	1305	HA	PRO A	89 137.650	-0.326	1.981 1.00 0.00
ATOM	1306	1HB	PRO A	89 134.846	-1.280	1.672 1.00 0.00
ATOM	1307	2HB	PRO A	89 135.476	0.079	2.609 1.00 0.00
ATOM	1308	1HG	PRO A	89 134.189	0.491	0.314 1.00 0.00
ATOM	1309	2HG	PRO A	89 135.602	1.469	0.758 1.00 0.00
ATOM	1310	1HD	PRO A	89 135.384	-0.771	-1.205 1.00 0.00
ATOM	1311	2HD	PRO A	89 136.354	0.714	-1.288 1.00 0.00
ATOM	1312	N	ASP A	90 137.937	-2.618	2.876 1.00 0.00
ATOM	1313	CA	ASP A	90 138.157	-3.961	3.398 1.00 0.00
ATOM	1314	С	ASP A	90 137.366	-4.181	4.683 1.00 0.00
ATOM	1315	0	ASP A	90 137.759	-3.716	5.754 1.00 0.00
ATOM	1316	CB	ASP A	90 139.647	-4.192	3.658 1.00 0.00
ATOM	1317	CG	ASP A	90 140.036	-5.653	3.537 1.00 0.00
ATOM	1318	0D1	ASP A	90 140.335	-6.275	4.578 1.00 0.00
ATOM	1319	OD2	ASP A	90 140.041	-6.174	2.403 1.00 0.00
ATOM	1320	H	ASP A	90 138.424	-1.866	3.271 1.00 0.00
ATOM	1321	HA	ASP A	90 137.817	-4.667	2.655 1.00 0.00
ATOM	1322	1HB	ASP A	90 140.223	-3.626	2.941 1.00 0.00
ATOM	1323	2HB	ASP A	90 139.889	-3.855	4.654 1.00 0.00
ATOM	1324	N	SER A	91 136.249	-4.893	4.571 1.00 0.00
ATOM	1325	CA	SER A	91 135.403	-5.173	5.725 1.00 0.00
ATOM	1326	C .	SER A	91 135.694	-6.560	6.292 1.00 0.00
ATOM	1327	0	SER A	91 134.834	-7.177	6.920 1.00 0.00
ATOM	1328	CB	SER A	91 133.928	-5.070	5.339 1.00 0.00
ATOM	1329	OG	SER A	91 133.139	-4.656	6.440 1.00 0.00
ATOM	1330	H	SER A	91 135.988	-5.237	3.691 1.00 0.00
ATOM	1331	HA	SER A	91 135.620	-4.435	6.482 1.00 0.00
ATOM	1332	1HB	SER A	91 133.815	-4.351	4.541 1.00 0.00
ATOM	1333	2HB	SER A	91 133.577	-6.036	5.005 1.00 0.00

ATOM	1334	HG	SER	A	91	132.431	-5.288	6.584	1.00	0.00
ATOM	1335	N	ARG	A	92	136.912	-7.045	6.069	1.00	0.00
ATOM	1336	CA	ARG	A	92	137.312	-8.358	6.561	1.00	0.00
ATOM	1337	С	ARG	A	92	137.327	-8.385	8.086	1.00	0.00
ATOM	1338	0	ARG	A	92	137.097	-9.426	8.702	1.00	0.00
ATOM	1339	CB	ARG	A	92	138.693	-8.731	6.019	1.00	0.00
ATOM	1340	CG	ARG	A	92	138.670	-9.221	4.580	1.00	0.00
ATOM	1341	CD	ARG	A	92	137.825	-10.475	4.432	1.00	0.00
ATOM	1342	NE	ARG	A	92	136.492	-10.179	3.911	1.00	0.00
ATOM	1343	CZ	ARG	A	92	136.232	-9.956	2.624	1.00	0.00
ATOM	1344	NH1	ARG	A	92	137.209	-9.994	1.726	1.00	0.00
ATOM	1345	NH2	ARG	A	92	134.992	-9.695	2.235	1.00	0.00
ATOM	1346	H	ARG	A	92	137.557	-6.509	5.564	1.00	0.00
ATOM	1347	HA	ARG	A	92	136.589	-9.078	6.208	1.00	0.00
ATOM	1348	1HB	ARG	A	92	139.334	-7.863	6.072	1.00	0.00
ATOM	1349	2HB	ARG	A	92	139.110	-9.513	6.636	1.00	0.00
ATOM	1350	1HG	ARG	A	92	138.257	-8.444	3.953	1.00	0.00
ATOM	1351	2HG	ARG	A	92	139.681	-9.438	4.269	1.00	0.00
ATOM	1352	1HD	ARG	A	92	138.324	-11.152	3.755	1.00	0.00
ATOM	1353	2HD	ARG	A	92	137.726	-10.944	5.400	1.00	0.00
ATOM	1354	HE	ARG	A	92	135.752	-10.145	4.552	1.00	0.00
ATOM	1355	1HH1	ARG	A	92	138.147	-10. 191	2.013	1.00	0.00
ATOM	1356	2HH1	ARG	A	92	137.007	-9.826	0.761	1.00	0.00
ATOM	1357	1HH2	ARG	A	92	134.252	-9.666	2.907	1.00	0.00
ATOM	1358	2HH2	ARG	A	92	134.796	-9.528	1.268	1.00	0.00
ATOM	1359	N	PHE	A	93	137.598	-7.232	8.690	1.00	0.00
ATOM	1360	CA	PHE	C A	93	137.643	-7.121	10.144	1.00	0.00
ATOM	1361	C	PHE	E A	93	136.506	-6.246	10.661	1.00	0.00
ATOM	1362	0	PHE	E A	93	136.622	-5.622	11.715	1.00	0.00

ATOM 1363	СВ	PHE A	93 138.988	-6.547	10.591 1.00 0.00
ATOM 1364	CG	PHE A	93 140.161	-7.413	10.229 1.00 0.00
ATOM 1365	CD1	PHE A	93 140.944	-7.988	11.217 1.00 0.00
ATOM 1366	CD2	PHE A	93 140.480	-7.652	8.903 1.00 0.00
ATOM 1367	CE1	PHE A	93 142.023	-8.787	10.889 1.00 0.00
ATOM 1368	CE2	PHE A	93 141.558	-8.449	8.567 1.00 0.00
ATOM 1369	CZ	PHE A	93 142.331	-9.016	9.562 1.00 0.00
ATOM 1370	Н	PHE A	93 137.773	-6.436	8.146 1.00 0.00
ATOM 1371	HA	PHE A	93 137.532	-8.114	10.555 1.00 0.00
ATOM 1372	1HB	PHE A	93 139.132	-5.582	10.125 1.00 0.00
ATOM 1373	2HB	PHE A	93 138.981	-6.425	11.664 1.00 0.00
ATOM 1374	HD1	PHE A	93 140.704	-7.809	12.255 1.00 0.00
ATOM 1375	HD2	PHE A	93 139.877	-7.208	8.124 1.00 0.00
ATOM 1376	HE1	PHE A	93 142.625	-9.228	11.668 1.00 0.00
ATOM 1377	HE2	PHE A	93 141.797	-8.627	7.529 1.00 0.00
ATOM 1378	HZ	PHE A	93 143.175	-9.640	9.302 1.00 0.00
ATOM 1379	N	ALA A	94 135.407	-6.203	9.912 1.00 0.00
ATOM 1380	CA	ALA A	94 134.252	-5.403	10.300 1.00 0.00
ATOM 1381	С	ALA A	94 133.515	-6.036	11.474 1.00 0.00
ATOM 1382	0	ALA A	94 133.186	-7.221	11.448 1.00 0.00
ATOM 1383	CB	ALA A	94 133.311	-5.227	9.116 1.00 0.00
ATOM 1384	Н	ALA A	94 135.373	-6.721	9.081 1.00 0.00
ATOM 1385	HA	ALA A	94 134.607	-4.426	10.594 1.00 0.00
ATOM 1386	1HB	ALA A	94 133.533	-4.295	8.616 1.00 0.00
ATOM 1387	2HB	ALA A	94 132.291	-5.213	9.466 1.00 0.00
ATOM 1388	ЗНВ	ALA A	94 133.444	-6.047	8.426 1.00 0.00
ATOM 1389	N	SER A	95 133.257	-5.236	12.504 1.00 0.00
ATOM 1390	CA	SER A	95 132.557	-5.717	13.689 1.00 0.00
ATOM 1391	С	SER A	95 131.078	-5.939	13.396 1.00 0.00

ATOM	1392	0	SER	A	95	130. 347	-4.997	13.093	1.00	0.00
MOTA	1393	CB	SER	A	95	132.718	-4.723	14.840	1.00	0.00
ATOM	1394	0G	SER	A	95	134.071	-4.626	15.247	1.00	0.00
ATOM	1395	Н	SER	A	95	133.544	-4.299	12.466	1.00	0.00
ATOM	1396	HA	SER	A	95	133.001	-6.659	13.975	1.00	0.00
ATOM	1397	1HB	SER	A	95	132.379	-3.748	14.522	1.00	0.00
ATOM	1398	2HB	SER	A	95	132.124	-5.052	15.682	1.00	0.00
ATOM	1399	HG	SER	A	95	134.111	-4.383	16.175	1.00	0.00
ATOM	1400	N	LEU	A	96	130.643	-7.192	13.488	1.00	0.00
ATOM	1401	CA	LEU	A	96	129.250	-7.537	13.233	1.00	0.00
ATOM	1402	С	LEU	A	96	128.828	-8.744	14.064	1.00	0.00
ATOM	1403	0	LEU	A	96	128.824	-9.876	13.579	1.00	0.00
ATOM	1404	CB	LEU	A	96	129.039	-7.830	11.746	1.00	0.00
ATOM	1405	CG	LEU	A	96	128.713	-6.609	10.885	1.00	0.00
ATOM	1406	CD1	LEU	A	96	129.040	-6.881	9.425	1.00	0.00
ATOM	1407	CD2	LEU	A	96	127.249	-6.224	11.042	1.00	0.00
ATOM	1408	Н	LEU	A	96	131.274	-7.900	13.734	1.00	0.00
ATOM	1409	HA	LEU	A	96	128.642	-6.691	13.513	1.00	0.00
MOTA	1410	1HB	LEU	A	96	129.940	-8.286	11.359	1.00	0.00
ATOM	1411	2HB	LEU	A	96	128.229	-8.537	11.650	1.00	0.00
ATOM	1412	HG	LEU	Α	96	129.316	-5.774	11.212	2 1.00	0.00
ATOM	1413	1HD1	LEU	Α	96	129.355	-5.964	8.950	1.00	0.00
ATOM	1414	2HD1	LEU	A	96	128.163	-7.263	8.924	1.00	0.00
ATOM	1415	3HD1	LEU	A	96	129.835	-7.609	9.364	1.00	0.00
ATOM	1416	1HD2	LEU	I A	96	126.884	-5.810	10.114	1.00	0.00
ATOM	1417	2HD2	LEU	J A	96	127.153	-5.488	11.828	3 1.00	0.00
ATOM	1418	3HD2	LEU	J A	96	126.672	-7.100	11.298	3 1.00	0.00
ATOM	1419	N	GLN	I A	97	128.471	-8.495	15.320	1.00	0.00
ATOM	1420	CA	GLN	I A	97	128.046	-9.560	16.220	1.00	0.00

	1.401	^	OT 31 A	07 100	CEO O O	70 10 700	1 00 0 00
ATOM	1421		GLN A		659 –9.2		1.00 0.00
ATOM	1422	0	GLN A	97 126.	264 -8.1	14 16.928	1.00 0.00
ATOM	1423	CB	GLN A	97 129.	053 –9.7	25 17.361	1.00 0.00
ATOM	1424	CG	GLN A	97 130.	174 -10.7	04 17.045	1.00 0.00
ATOM	1425	CD	GLN A	97 130.	874 -11.2	08 18.292	1.00 0.00
ATOM	1426	OE1	GLN A	97 130.	231 -11.6	32 19.251	1.00 0.00
ATOM	1427	NE2	GLN A	97 132.	201 –11.1	.62 18.283	1.00 0.00
ATOM	1428	H	GLN A	97 128.	494 -7.5	572 15.649	1.00 0.00
ATOM	1429	HA	GLN A	97 128.	.005 -10.4	178 15.653	1.00 0.00
ATOM	1430	1HB	GLN A	97 129.	.495 -8.7	⁷ 64 17.578	1.00 0.00
ATOM	1431	2HB	GLN A	97 128	.533 -10.0)79 18.238	1.00 0.00
ATOM	1432	1HG	GLN A	97 129	.758 –11.5	550 16.518	1.00 0.00
ATOM	1433	2HG	GLN A	97 130	.899 -10.2	209 16.417	1.00 0.00
ATOM	1434	1HE2	GLN A	97 132	.647 -10.8	312 17.485	1.00 0.00
ATOM	1435	2HE2	GLN A	97 132	.681 –11.4	182 19.076	1.00 0.00
ATOM	1436	N	PRO A	98 125	.898 -10.3	327 17.129	1.00 0.00
ATOM	1437	CA	PRO A	98 124	.549 -10.	181 17.686	3 1.00 0.00
ATOM	1438	С	PRO A	98 124	.566 -9.	615 19.102	2 1.00 0.00
ATOM	1439	0	PRO A	98 125	.628 -9.	439 19.699	1.00 0.00
ATOM	1440	СВ	PRO A	98 124	.009 -11.	613 17.690	1.00 0.00
ATOM	1441	CG	PRO A	98 125	. 221 –12.	475 17.756	3 1.00 0.00
ATOM	1442	CD	PRO A	98 126	. 294 –11.	743 16.998	3 1.00 0.00
ATOM	1443	HA	PRO A	98 123	3.928 -9.	560 17.059	9 1.00 0.00
ATOM	1444	1HB	PRO A	98 123	3.372 -11.	758 18.549	9 1.00 0.00
ATOM	1445	2HB	PRO A	98 123	3.448 -11.	791 16.78	4 1.00 0.00
ATOM	1446	1HG	PRO A	98 125	5.517 –12.	613 18.78	5 1.00 0.00
ATOM	1447	2HG	PRO A	98 125	5.019 –13.	429 17.29	1 1.00 0.00
ATOM	1448	1HD	PRO A	98 127	7.259 –11.	917 17.44	8 1.00 0.00
ATOM	1449	2HD	PRO A	98 126	6. 297 -12.	046 15.96	2 1.00 0.00

ATOM 3	1450	N	SER	A	99	123.382	-9.331	19.634	1.00 (0.00
ATOM :	1451	CA	SER	A	99	123.259	-8.784	20.981	1.00	0.00
ATOM :	1452	С	SER	A	99	122.426	-9.703	21.868	1.00	0.00
ATOM	1453	0	SER	A	99	121.262	-9.977	21.575	1.00	0.00
ATOM	1454	СВ	SER	A	99	122.626	-7.392	20.932	1.00	0.00
ATOM	1455	0G	SER	A	99	123.485	-6.463	20.292	1.00	0.00
ATOM	1456	H	SER	A	99	122.570	-9.493	19.109	1.00	0.00
ATOM	1457	HA	SER	A	99	124.252	-8.704	21.398	1.00	0.00
ATOM	1458	1HB	SER	A	99	121.697	-7.440	20.385	1.00	0.00
ATOM	1459	2HB	SER	A	99	122.434	-7.051	21.939	1.00	0.00
ATOM	1460	HG	SER	A	99	123.508	-5.648	20.798	1.00	0.00
ATOM	1461	N	GLY	A	100	123.030	-10.177	22.953	1.00	0.00
ATOM	1462	CA	GLY	A	100	122.328	-11.060	23.866	1.00	0.00
MOTA	1463	C	GLY	A	100	123.264	-11.750	24.840	1.00	0.00
ATOM	1464	0	GLY	A	100	124.480	-11.744	24.645	1.00	0.00
ATOM	1465	Н	GLY	A	100	123.958	-9.925	23.135	1.00	0.00
ATOM	1466	1HA	GLY	A	100	121.606	-10.483	24.424	1.00	0.00
ATOM	1467	2HA	GLY	A	100	121.806	-11.811	23.292	1.00	0.00
ATOM	1468	N	PRO	A	101	122.723	-12.361	25.909	1.00	0.00
ATOM	1469	CA	PRO	A	101	123.532	-13.058	26.914	1.00	0.00
ATOM	1470	C	PRO	A	101	124.481	-14.075	26.289	1.00	0.00
ATOM	1471	0	PRO) A	101	124.058	-15.142	25.844	1.00	0.00
ATOM	1472	CB	PRO) A	101	122.490	-13.764	27.784	1.00	0.00
ATOM	1473	CG	PRO) A	101	121.251	-12.951	27.626	1.00	0.00
ATOM	1474	CD	PRO) A	101	121.283	-12.419	26. 220	1.00	0.00
ATOM	1475	HA	PRO) A	101	124.098	-12.363	27.517	1.00	0.00
ATOM	1476	1HB	PRO) A	101	122.347	-14.775	27.430	1.00	0.00
ATOM	1477	2HB	PRO) A	101	122.824	-13.779	28. 810	1.00	0.00
ATOM	1478	1HG	PR() A	101	120.382	-13.575	27.772	1.00	0.00

ATOM 1479	2HG	PRO A 101 121.254 -12.137 28.336 1.00 0.00
ATOM 1480	1HD	PRO A 101 120.770 -13.092 25.550 1.00 0.00
ATOM 1481	2HD	PRO A 101 120.841 -11.434 26.180 1.00 0.00
ATOM 1482	N	SER A 102 125.766 -13.737 26.259 1.00 0.00
ATOM 1483	CA	SER A 102 126.776 -14.621 25.688 1.00 0.00
ATOM 1484	С	SER A 102 128.162 -14.283 26.226 1.00 0.00
ATOM 1485	0	SER A 102 128.405 -13.168 26.686 1.00 0.00
ATOM 1486	СВ	SER A 102 126.769 -14.520 24.162 1.00 0.00
ATOM 1487	OG	SER A 102 127.881 -15.196 23.599 1.00 0.00
ATOM 1488	Н	SER A 102 126.042 -12.874 26.629 1.00 0.00
ATOM 1489	HA	SER A 102 126.528 -15.633 25.973 1.00 0.00
ATOM 1490	1HB	SER A 102 125.863 -14.962 23.776 1.00 0.00
ATOM 1491	2HB	SER A 102 126.812 -13.480 23.873 1.00 0.00
ATOM 1492	HG	SER A 102 128.175 -14.731 22.813 1.00 0.00
ATOM 1493	N	SER A 103 129.067 -15.254 26.164 1.00 0.00
ATOM 1494	CA	SER A 103 130.431 -15.060 26.645 1.00 0.00
ATOM 1495	С	SER A 103 131.329 -16.216 26.219 1.00 0.00
ATOM 1496	0	SER A 103 131.152 -17.349 26.666 1.00 0.00
ATOM 1497	СВ	SER A 103 130.442 -14.924 28.169 1.00 0.00
ATOM 1498	OG	SER A 103 130.264 -16.183 28.794 1.00 0.00
ATOM 1499	H	SER A 103 128.814 -16.122 25.786 1.00 0.00
ATOM 1500	HA	SER A 103 130.808 -14.146 26.209 1.00 0.00
ATOM 1501	1HB	SER A 103 131.388 -14.510 28.485 1.00 0.00
ATOM 1502	2HB	SER A 103 129.641 -14.267 28.476 1.00 0.00
ATOM 1503	HG	SER A 103 129.437 -16.186 29.280 1.00 0.00
ATOM 1504	N	GLY A 104 132.292 -15.922 25.352 1.00 0.00
ATOM 1505	CA	GLY A 104 133.203 -16.947 24.880 1.00 0.00
ATOM 1506	С	GLY A 104 132.655 -17.708 23.689 1.00 0.00
ATOM 1507	0	GLY A 104 133.079 -17.416 22.551 1.00 0.00

ATOM 1508 OXT GLY A 104 131.800 -18.596 23.893 1.00 0.00
ATOM 1509 H GLY A 104 132.385 -15.001 25.030 1.00 0.00
ATOM 1510 1HA GLY A 104 134.137 -16.483 24.598 1.00 0.00
ATOM 1511 2HA GLY A 104 133.390 -17.645 25.683 1.00 0.00
TER 1512 GLY A 104
ENDMDL

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立体構造座標表7

ATOM	1	N	GLY A	1 128.015	1.010	-10.316	1.00	0.00
ATOM	2	CA	GLY A	1 127.655	-0.374	-10.731	1.00	0.00
ATOM	3	С	GLY A	1 128.389	-1.429	-9.927	1.00	0.00
ATOM	4	0	GLY A	1 128.645	-2.528	-10.420	1.00	0.00
ATOM	5	1H	GLY A	1 129.039	1.078	-10.148	1.00	0.00
ATOM	6	2H	GLY A	1 127.515	1.263	-9.441	1.00	0.00
ATOM	7	ЗН	GLY A	1 127.751	1.686	-11.061	1.00	0.00
ATOM	8	1HA	GLY A	1 126.592	-0.512	-10.600	1.00	0.00
ATOM	9	2HA	GLY A	1 127.897	-0.499	-11.776	1.00	0.00
ATOM	10	N	SER A	2 128.728	-1.096	-8.686	1.00	0.00
ATOM	11	CA	SER A	2 129.437	-2.024	-7.813	1.00	0.00
ATOM	12	С	SER A	2 128.513	-2.562	-6.726	1.00	0.00
ATOM	13	0	SER A	2 128.240	-3.761	-6.667	1.00	0.00
ATOM	14	СВ	SER A	2 130.645	-1.334	-7.176	1.00	0.00
ATOM	15	OG	SER A	2 131.499	-0.785	-8.163	1.00	0.00
ATOM	16	Н	SER A	2 128.496	-0.205	-8.351	1.00	0.00
ATOM	17	HA	SER A	2 129.783	-2.849	-8.417	1.00	0.00
ATOM	18	1HB	SER A	2 130.304	-0.538	-6.531	1.00	0.00
ATOM	19	2HB	SER A	2 131.203	-2.054	-6.594	1.00	0.00
ATOM	20	HG	SER A	2 132.295	-0.445	-7.746	1.00	0.00

ATOM 21	N	SER A	3 128.033	-1.668	-5.868 1.00 0.00
ATOM 22	CA	SER A	3 127.138	-2.053	-4.782 1.00 0.00
ATOM 23	C	SER A	3 125.816	-1.298	-4.873 1.00 0.00
ATOM 24	0	SER A	3 125.217	-0.951	-3.856 1.00 0.00
ATOM 25	CB	SER A	3 127.799	-1.786	-3.429 1.00 0.00
ATOM 26	OG	SER A	3 128.587	-0.609	-3.469 1.00 0.00
ATOM 27	H	SER A	3 128.287	-0.726	-5.966 1.00 0.00
ATOM 28	HA	SER A	3 126.942	-3.111	-4.873 1.00 0.00
ATOM 29	1HB	SER A	3 127.036	-1.666	-2.674 1.00 0.00
ATOM 30	2HB	SER A	3 128.434	-2.620	-3.170 1.00 0.00
ATOM 31	HG	SER A	3 128.100	0.088	-3.915 1.00 0.00
ATOM 32	N	GLY A	4 125.367	-1.048	-6.099 1.00 0.00
ATOM 33	CA	GLY A	4 124.119	-0.335	-6.299 1.00 0.00
ATOM 34	С	GLY A	4 124.265	1.160	-6.100 1.00 0.00
ATOM 35	0	GLY A	4 125.326	1.638	-5.697 1.00 0.00
ATOM 36	Н	GLY A	4 125.887	-1.348	-6.873 1.00 0.00
ATOM 37	1HA	GLY A	4 123.769	-0.521	-7.304 1.00 0.00
ATOM 38	2HA	GLY A	4 123.386	-0.711	-5.600 1.00 0.00
ATOM 39	N	SER A	5 123.197	1.900	-6.381 1.00 0.00
ATOM 40	CA	SER A	5 123.211	3.351	-6.231 1.00 0.00
ATOM 41	С	SER A	5 122.158	3.804	-5.225 1.00 0.00
ATOM 42	0	SER A	5 121.565	4.872	-5.369 1.00 0.00
ATOM 43	CB	SER A	5 122.967	4.027	-7.581 1.00 0.00
ATOM 44	OG	SER A	5 123.746	5.203	-7.711 1.00 0.00
ATOM 45	Н	SER A	5 122.380	1.460	-6.698 1.00 0.00
ATOM 46	HA	SER A	5 124.186	3.637	-5.866 1.00 0.00
ATOM 47	1HB	SER A	5 123.231	3.346	-8.376 1.00 0.00
ATOM 48	2HB	SER A	5 121.923	4.291	-7.665 1.00 0.00
ATOM 49	HG	SER A	5 123.666	5.731	-6.914 1.00 0.00

ATOM 50	N	SER A	6 121.929	2.982	-4.205 1.00 0.00
ATOM 51	CA	SER A	6 120.947	3.298	-3.175 1.00 0.00
ATOM 52	С	SER A	6 121.634	3.702	-1.874 1.00 0.00
ATOM 53	0	SER A	6 122.774	3.317	-1.617 1.00 0.00
ATOM 54	СВ	SER A	6 120.031	2.097	-2.929 1.00 0.00
ATOM 55	OG	SER A	6 119.317	1.751	-4.103 1.00 0.00
ATOM 56	H	SER A	6 122.434	2.144	-4.144 1.00 0.00
ATOM 57	HA	SER A	6 120.352	4.127	-3.527 1.00 0.00
ATOM 58	1HB	SER A	6 120.626	1.249	-2.622 1.00 0.00
ATOM 59	2HB	SER A	6 119.324	2.340	-2.149 1.00 0.00
ATOM 60	HG	SER A	6 118.645	1.100	-3.888 1.00 0.00
ATOM 61	N	GLY A	7 120.931	4.481	-1.058 1.00 0.00
ATOM 62	CA	GLY A	7 121.489	4.925	0.206 1.00 0.00
ATOM 63	С	GLY A	7 122.446	6.089	0.041 1.00 0.00
ATOM 64	0	GLY A	7 122.121	7.080	-0.613 1.00 0.00
ATOM 65	Н	GLY A	7 120.027	4.756	-1.316 1.00 0.00
ATOM 66	1HA	GLY A	7 120.683	5.226	0.857 1.00 0.00
ATOM 67	2HA	GLY A	7 122.018	4.101	0.663 1.00 0.00
ATOM 68	N	LEU A	8 123.629	5.969	0.635 1.00 0.00
ATOM 69	CA	LEU A	8 124.636	7.021	0.551 1.00 0.00
ATOM 70	C	LEU A	8 125.948	6.474	-0.004 1.00 0.00
ATOM 71	0	LEU A	8 126.512	5.522	0.535 1.00 0.00
ATOM 72	CB	LEU A	8 124.873	7.642	1.930 1.00 0.00
ATOM 73	CG	LEU A	8 123.800	8.630	2.387 1.00 0.00
ATOM 74	CD1	LEU A	8 123.646	8.590	3.899 1.00 0.00
ATOM 75	CD2	LEU A	8 124.140	10.038	1.920 1.00 0.00
ATOM 76	H	LEU A	8 123.829	5.155	1.143 1.00 0.00
ATOM 77	HA	LEU A	8 124.266	7.782	-0.119 1.00 0.00
ATOM 78	1HB	LEU A	8 124.930	6.843	2.656 1.00 0.00

ATOM	79	2HB	LEU	A	8	125.821	8.158	1.911	1.00	0.00
ATOM	80	HG	LEU	A	8	122.852	8.351	1.948	1.00	0.00
MOTA	81	1HD1	LEU	A	8	122.870	7.887	4.164	1.00	0.00
ATOM	82	2HD1	LEU	A	8	123.380	9.572	4.260	1.00	0.00
ATOM	83	3HD1	LEU	A	8	124.579	8.282	4.347	1.00	0.00
ATOM	84	1HD2	LEU	A	8	124.270	10.041	0.848	1.00	0.00
ATOM	85	2HD2	LEU	A	8	125.054	10.363	2.396	1.00	0.00
ATOM	86	3HD2	LEU	A	8	123.337	10.709	2.187	1.00	0.00
ATOM	87	N .	ALA	A	9	126.427	7.081	-1.085	1.00	0.00
ATOM	88	CA	ALA	A	9	127.671	6.655	-1.713	1.00	0.00
ATOM	89	C	ALA	A	9	128.282	7.780	-2.541	1.00	0.00
ATOM	90	0	ALA	A	9	127.588	8.712	-2.947	1.00	0.00
ATOM	91	CB	ALA	A	9	127.430	5.429	-2.580	1.00	0.00
ATOM	92	Н	ALA	A	9	125.931	7.834	-1.468	1.00	0.00
ATOM	93	HA	ALA	A	9	128.363	6.381	-0.929	1.00	0.00
ATOM	94	1HB	ALA	A	9	126.713	4.782	-2.099	1.00	0.00
ATOM	95	2HB	ALA	A	9	128.360	4.897	-2.717	1.00	0.00
ATOM	96	3HB	ALA	A	9	127.047	5.738	-3.542	1.00	0.00
ATOM	97	N	MET	A	10	129.585	7.686	-2.786	1.00	0.00
ATOM	98	CA	MET	A	10	130.290	8.696	-3.566	1.00	0.00
ATOM	99	C	MET	A	10	131.574	8.124	-4.163	1.00	0.00
ATOM	100	0	MET	A	10	132.645	8. 223	-3.564	1.00	0.00
ATOM	101	CB	MET	A	10	130.617	9.909	-2.692	1.00	0.00
ATOM	102	CG	MET	A	10	129.385	10.644	-2.188	1.00	0.00
ATOM	103	SD	MET	A	10	129.778	12.268	-1.509	1.00	0.00
ATOM	104	CE	MET	A	10	128.986	13.337	-2.709	1.00	0.00
ATOM	105	H	MET	A	10	130.084	6.919	-2.434	1.00	0.00
ATOM	106	HA	MET	A	10	129.641	9.008	-4.370	1.00	0.00
ATOM	107	1HB	MET	Α	10	131.188	9.579	-1.838	1.00	0.00

ATOM 108	2HB	MET A	10 131.213	10.602	-3.267 1.00 0.00
ATOM 109	1HG	MET A	10 128.697	10.771	-3.010 1.00 0.00
ATOM 110	2HG	MET A	10 128.919	10.050	-1.416 1.00 0.00
ATOM 111	1HE	MET A	10 128.189	13.886	-2.232 1.00 0.00
ATOM 112	2HE	MET A	10 128.582	12.738	-3.512 1.00 0.00
ATOM 113	3HE	MET A	10 129.713	14.030	-3.107 1.00 0.00
ATOM 114	N	PRO A	11 131.483	7.516	-5.359 1.00 0.00
ATOM 115	CA	PRO A	11 132.643	6.928	-6.035 1.00 0.00
ATOM 116	С	PRO A	11 133.751	7.950	-6.283 1.00 0.00
ATOM 117	0	PRO A	11 134.920	7.684	-6.004 1.00 0.00
ATOM 118	СВ	PRO A	11 132.081	6.413	-7.364 1.00 0.00
ATOM 119	CG	PRO A	11 130.608	6.310	-7.156 1.00 0.00
ATOM 120	CD	PRO A	11 130.246	7.356	-6.140 1.00 0.00
ATOM 121	HA	PRO A	11 133.046	6.101	-5.469 1.00 0.00
ATOM 122	1HB	PRO A	11 132.320	7.112	-8.152 1.00 0.00
ATOM 123	2HB	PRO A	11 132.514	5.451	-7.589 1.00 0.00
ATOM 124	1HG	PRO A	11 130.095	6.502	-8.085 1.00 0.00
ATOM 125	2HG	PRO A	11 130.359	5.326	-6.786 1.00 0.00
ATOM 126	1HD	PRO A	11 129.976	8.280	-6.630 1.00 0.00
ATOM 127	2HD	PRO A	11 129.437	7.010	-5.514 1.00 0.00
ATOM 128	N	PRO A	12 133.404	9.140	-6.810 1.00 0.00
ATOM 129	CA	PRO A	12 134.388	10.193	-7.083 1.00 0.00
ATOM 130	С	PRO A	12 135.197	10.557	-5.844 1.00 0.00
ATOM 131	0	PRO A	12 136.300	11.094	-5.944 1.00 0.00
ATOM 132	CB	PRO A	12 133.533	11.382	-7.530 1.00 0.00
ATOM 133	CG	PRO A	12 132.261	10.781	-8.015 1.00 0.00
ATOM 134	CD	PRO A	12 132.036	9.557	-7.172 1.00 0.00
ATOM 135	HA	PRO A	12 135.060	9.908	-7.880 1.00 0.00
ATOM 136	1HB	PRO A	12 133.364	12.042	-6.691 1.00 0.00

ATOM	137	2HB	PRO A	A :	12	134.040	11.918	-8.318	1.00	0.00
ATOM	138	1HG	PRO A	A :	12	131.450	11.481	-7.884	1.00	0.00
ATOM	139	2HG	PRO A	A .	12	132.357	10.506	-9.055	1.00	0.00
ATOM	140	1HD	PRO A	A .	12	131.462	9.806	-6.292	1.00	0.00
ATOM	141	2HD	PRO A	A	12	131.537	8.792	-7.746	1.00	0.00
ATOM	142	N	GLY A	A	13	134.641	10.259	-4.673	1.00	0.00
ATOM	143	CA	GLY A	A	13	135.325	10.562	-3.429	1.00	0.00
ATOM	144	С	GLY A	A	13	136.013	9.350	-2.835	1.00	0.00
ATOM	145	0	GLY A	A	13	135.664	8.902	-1.743	1.00	0.00
ATOM	146	H	GLY .	A	13	133.758	9.830	-4.653	1.00	0.00
ATOM	147	1HA	GLY .	A	13	136.063	11.328	-3.615	1.00	0.00
ATOM	148	2НА	GLY .	A	13	134.604	10.938	-2.717	1.00	0.00
ATOM	149	N	ASN .	A	14	136.995	8.818	-3.554	1.00	0.00
ATOM	150	CA	ASN .	A	14	137.736	7.650	-3.092	1.00	0.00
ATOM	151	С	ASN .	A	14	136.803	6.459	-2.890	1.00	0.00
ATOM	152	0	ASN .	A	14	136.816	5.818	-1.839	1.00	0.00
ATOM	153	CB	ASN .	A	14	138.469	7.970	-1.786	1.00	0.00
ATOM	154	CG	ASN .	A	14	139.436	9.126	-1.935	1.00	0.00
ATOM	155	OD1	ASN	A	14	140.104	9.265	-2.961	1.00	0.00
ATOM	156	ND2	ASN	A	14	139.519	9.965	-0.909	1.00	0.00
ATOM	157	H	ASN	A	14	137.228	9.220	-4.417	1.00	0.00
ATOM	158	HA	ASN	A	14	138.463	7.398	-3.848	1.00	0.00
ATOM	159	1HB	ASN	A	14	137.743	8.227	-1.028	1.00	0.00
ATOM	160	2HB	ASN	A	14	139.022	7.098	-1.468	1.00	0.00
ATOM	161	1HD2	ASN	A	14	138.958	9.793	-0.124	1.00	0.00
ATOM	162	2HD2	ASN	A	14	140.137	10.722	-0.978	1.00	0.00
ATOM	163	N	SER	A	15	135.996	6.168	-3.905	1.00	0.00
ATOM	164	CA	SER	A	15	135.055	5.054	-3.844	1.00	0.00
ATOM	165	С	SER	A	15	134.001	5.290	-2.766	1.00	0.00

ATOM	166	0	SER A	15 132.873	5.682	-3.063 1.00 0.00
ATOM	167	CB	SER A	15 135.798	3.742	-3.575 1.00 0.00
ATOM	168	OG	SER A	15 136.062	3.049	-4.783 1.00 0.00
ATOM	169	Н	SER A	15 136.034	6.716	-4.718 1.00 0.00
ATOM	170	HA	SER A	15 134.562	4.986	-4.802 1.00 0.00
ATOM	171	1HB	SER A	15 136.736	3.957	-3.085 1.00 0.00
ATOM	172	2HB	SER A	15 135.194	3.114	-2.938 1.00 0.00
ATOM	173	HG	SER A	15 136.234	2.124	-4.589 1.00 0.00
ATOM	174	N	HIS A	16 134.376	5.049	-1.514 1.00 0.00
ATOM	175	CA	HIS A	16 133.462	5.237	-0.393 1.00 0.00
ATOM	176	С	HIS A	16 134.143	5.997	0.742 1.00 0.00
ATOM	177	0	HIS A	16 133.685	7.064	1.150 1.00 0.00
ATOM	178	CB	HIS A	16 132.957	3.883	0.113 1.00 0.00
ATOM	179	CG	HIS A	16 131.570	3.555	-0.342 1.00 0.00
ATOM	180	ND1	HIS A	16 130.456	3.728	0.453 1.00 0.00
ATOM	181	CD2	HIS A	16 131.115	3.061	-1.519 1.00 0.00
ATOM	182	CE1	HIS A	16 129.377	3.355	-0.214 1.00 0.00
ATOM	183	NE2	HIS A	16 129.751	2.947	-1.413 1.00 0.00
ATOM	184	H	HIS A	16 135.289	4.740	-1.339 1.00 0.00
ATOM	185	HA	HIS A	16 132.622	5.817	-0.744 1.00 0.00
ATOM	186	1HB	HIS A	16 133.616	3.105	-0.245 1.00 0.00
ATOM	187	2HB	HIS A	16 132.962	3.883	1.193 1.00 0.00
ATOM	188	HD1	HIS A	16 130.456	4.074	1.370 1.00 0.00
ATOM	189	HD2	HIS A	16 131.715	2.805	-2.381 1.00 0.00
MOTA	190	HE1	HIS A	16 128.364	3.381	0.158 1.00 0.00
ATOM	191	HE2	HIS A	16 129.161	2.533	-2.078 1.00 0.00
ATOM	192	N	GLY A	17 135.238	5.440	1.246 1.00 0.00
ATOM	193	CA	GLY A	17 135.964	6.079	2.329 1.00 0.00
ATOM	194	C	GLY A	17 137.320	5.446	2.570 1.00 0.00

ATOM	195	0	GLY	A	17	137.588	4.929	3.654	1.00	0.00
ATOM	196	Н	GLY	A	17	135.557	4.588	0.881	1.00	0.00
ATOM	197	1HA	GLY	A	17	136.104	7.122	2.087	1.00	0.00
ATOM	198	2HA	GLY	A	17	135.378	6.004	3.233	1.00	0.00
MOTA	199	N	LEU	A	18	138.179	5.487	1.556	1.00	0.00
ATOM	200	CA	LEU	A	18	139.516	4.914	1.663	1.00	0.00
ATOM	201	C	LEU	A	18	140.514	5.950	2.171	1.00	0.00
ATOM	202	0	LEU	A	18	140.889	6.873	1.448	1.00	0.00
ATOM	203	CB	LEU	A	18	139.972	4.374	0.306	1.00	0.00
ATOM	204	CG	LEU	A	18	138.938	3.521	-0.431	1.00	0.00
ATOM	205	CD1	LEU	A	18	139.197	3.545	-1.929	1.00	0.00
ATOM	206	CD2	LEU	A	18	138.957	2.092	0.092	1.00	0.00
ATOM	207	Н	LEU	A	18	137.907	5.914	0.717	1.00	0.00
ATOM	208	HA	LEU	A	18	139.471	4.098	2.369	1.00	0.00
ATOM	209	1HB	LEU	A	18	140.231	5.213	-0.323	1.00	0.00
ATOM	210	2HB	LEU	A	18	140.856	3.774	0.460	1.00	0.00
ATOM	211	HG	LEU	A	18	137.954	3.929	-0.256	1.00	0.00
ATOM	212	1HD1	LEU	A	18	138.664	2.732	-2.399	1.00	0.00
ATOM	213	2HD1	LEU	A	18	140.255	3.436	-2.114	1.00	0.00
ATOM	214	3HD1	LEU	A	18	138.855	4.484	-2.338	1.00	0.00
ATOM	215	1HD2	LEU	A	18	139.980	1.770	0.220	1.00	0.00
ATOM	216	2HD2	LEU	A	18	138.461	1.443	-0.615	1.00	0.00
ATOM	217	3HD2	LEU	A	18	138.445	2.050	1.041	1.00	0.00
ATOM	218	N	GLU	A	19	140.937	5.792	3.420	1.00	0.00
ATOM	219	CA	GLU	A	19	141.892	6.714	4.026	1.00	0.00
ATOM	220	С	GLU	A	19	142.828	5.978	4.980	1.00	0.00
ATOM	221	0	GLU	A	19	142.700	4.771	5. 184	1.00	0.00
ATOM	222	CB	GLU	A	19	141.153	7.825	4.774	1.00	0.00
ATOM	223	CG	GLU	A	19	140.096	7.312	5.737	1.00	0.00

ATOM	224	CD	GLU A	19	140.078	8.078	7.045	1.00	0.00
ATOM	225	OE1	GLU A	19	139.086	8.792	7.302	1.00	0.00
ATOM	226	0E2	GLU A	19	141.056	7.963	7.814	1.00	0.00
ATOM	227	H	GLU A	19	140.601	5.037	3.947	1.00	0.00
ATOM	228	HA	GLU A	19	142.478	7.153	3.233	1.00	0.00
ATOM	229	1HB	GLU A	19	141.872	8.403	5.336	1.00	0.00
ATOM	230	2HB	GLU A	19	140.672	8.469	4.053	1.00	0.00
ATOM	231	1HG	GLU A	19	139.127	7.406	5.270	1.00	0.00
ATOM	232	2HG	GLU A	19	140.294	6.271	5.948	1.00	0.00
ATOM	233	N	VAL A	20	143.770	6.715	5.562	1.00	0.00
ATOM	234	CA	VAL A	20	144.726	6.133	6.495	1.00	0.00
ATOM	235	С	VAL A	20	144.014	5.482	7.678	1.00	0.00
ATOM	236	0	VAL A	20	143.052	6.032	8.215	1.00	0.00
ATOM	237	CB	VAL A	20	145.712	7.194	7.023	1.00	0.00
ATOM	238	CG1	VAL A	20	146.786	6.547	7.885	1.00	0.00
ATOM	239	CG2	VAL A	20	146.337	7.962	5.868	1.00	0.00
ATOM	240	H	VAL A	20	143.820	7.673	5.360	1.00	0.00
ATOM	241	HA	VAL A	20	145.291	5.378	5.968	1.00	0.00
ATOM	242	ΗВ	VAL A	20	145.162	7.893	7.636	1.00	0.00
ATOM	243	1HG1	VAL A	20	146.375	6.316	8.857	1.00	0.00
ATOM	244	2HG1	VAL A	20	147.615	7.229	7.999	1.00	0.00
ATOM	245	3HG1	VAL A	20	147.129	5.638	7.413	1.00	0.00
ATOM	246	1HG2	VAL A	20	147.314	8.318	6.159	1.00	0.00
ATOM	247	2HG2	VAL A	20	145.708	8.802	5.613	1.00	0.00
ATOM	248	3HG2	VAL A	20	146.431	7.310	5.012	1.00	0.00
ATOM	249	N	GLY A	21	144.493	4.309	8.077	1.00	0.00
ATOM	250	CA	GLY A	21	143.890	3.603	9.192	1.00	0.00
ATOM	251	С	GLY A	21	142.852	2.592	8.746	1.00	0.00
ATOM	252	0	GLY A	21	142.800	1.477	9.261	1.00	0.00

ATOM 2	253	Н	GLY A	21 145.263	3.919	7.611 1.00 0.00
ATOM 2	254	1HA	GLY A	21 144.666	3.088	9.740 1.00 0.00
ATOM 2	255	2HA	GLY A	21 143.419	4.321	9.846 1.00 0.00
ATOM 2	256	N	SER A	22 142.024	2.985	7.783 1.00 0.00
ATOM 2	257	CA	SER A	22 140.981	2.106	7.266 1.00 0.00
ATOM 2	258	С	SER A	22 141.573	1.041	6.348 1.00 0.00
ATOM :	259	0	SER A	22 142.497	1.314	5.581 1.00 0.00
ATOM :	260	CB	SER A	22 139.928	2.918	6.510 1.00 0.00
ATOM :	261	OG	SER A	22 139.576	4.090	7.227 1.00 0.00
ATOM :	262	H	SER A	22 142.115	3.887	7.412 1.00 0.00
ATOM	263	HA	SER A	22 140.512	1.619	8.107 1.00 0.00
ATOM	264	1HB	SER A	22 140.321	3.206	5.547 1.00 0.00
ATOM	265	2HB	SER A	22 139.042	2.316	6.372 1.00 0.00
ATOM	266	HG	SER A	22 140.307	4.712	7.202 1.00 0.00
ATOM	267	N	LEU A	23 141.037	-0.171	6.433 1.00 0.00
ATOM	268	CA	LEU A	23 141.513	-1.277	5.610 1.00 0.00
ATOM	269	С	LEU A	23 141.115	-1.081	4.150 1.00 0.00
ATOM	270	0	LEU A	23 140.071	-0.500	3.854 1.00 0.00
ATOM	271	CB	LEU A	23 140.956	-2.603	6.129 1.00 0.00
ATOM	272	CG	LEU A	23 141.330	-2.942	7.574 1.00 0.00
ATOM	273	CD1	LEU A	23 140.251	-3.798	8.217 1.00 0.00
ATOM	274	CD2	LEU A	23 142.675	-3.649	7.623 1.00 0.00
ATOM	275	Н	LEU A	23 140.303	-0.327	7.064 1.00 0.00
ATOM	276	HA	LEU A	23 142.590	-1.299	5.677 1.00 0.00
ATOM	277	1HB	LEU A	23 139.878	-2.570	6.056 1.00 0.00
ATOM	278	2HB	LEU A	23 141.319	-3.396	5.492 1.00 0.00
ATOM	279	HG	LEU A	23 141.411	-2.026	8.140 1.00 0.00
ATOM	280	1HD1	LEU A	23 140.197	-3.576	9.273 1.00 0.00
ATOM	281	2HD1	LEU A	23 140.490	-4.843	8.080 1.00 0.00

ATOM	282	3HD1	LEU A	23	139.298	-3.584	7.756	1.00	0.00
ATOM	283	1HD2	LEU A	23	143.218	-3.332	8.501	1.00	0.00
ATOM	284	2HD2	LEU A	23	143.245	-3.402	6.739	1.00	0.00
ATOM	285	3HD2	LEU A	23	142.519	-4.718	7.662	1.00	0.00
ATOM	286	N	ALA A	24	141.955	-1.570	3.243	1.00	0.00
ATOM	287	CA	ALA A	24	141.691	-1.451	1.815	1.00	0.00
ATOM	288	С	ALA A	. 24	142.305	-2.615	1.045	1.00	0.00
ATOM	289	0	ALA A	. 24	143.292	-3.209	1.480	1.00	0.00
ATOM	290	CB	ALA A	. 24	142.226	-0.127	1.289	1.00	0.00
ATOM	291	Н	ALA A	. 24	142.771	-2.023	3.542	1.00	0.00
ATOM	292	HA	ALA A	. 24	140.621	-1.462	1.671	1.00	0.00
ATOM	293	1HB	ALA A	24	142.507	-0.239	0.251	1.00	0.00
ATOM	294	2HB	ALA A	24	143.091	0.166	1.866	1.00	0.00
ATOM	295	ЗНВ	ALA A	24	141.461	0.630	1.375	1.00	0.00
ATOM	296	N	GLU A	25	141.715	-2.937	-0.102	1.00	0.00
ATOM	297	CA	GLU A	25	142.205	-4.032	-0.932	1.00	0.00
ATOM	298	С	GLU A	A 25	142.605	-3.530	-2.316	1.00	0.00
ATOM	299	0	GLU A	A 25	142.089	-2.519	-2.793	1.00	0.00
ATOM	300	CB	GLU A	A 25	141.136	-5.119	-1.062	1.00	0.00
ATOM	301	CG	GLU A	A 25	141.708	-6.516	-1.245	1.00	0.00
ATOM	302	CD	GLU A	A 25	140.729	-7.464	-1.909	1.00	0.00
ATOM	303	0E1	GLU A	A 25	139.929	-6.999	-2.749	1.00	0.00
ATOM	304	OE2	GLU A	A 25	140.762	-8.671	-1.590	1.00	0.00
ATOM	305	H	GLU A	A 25	140.932	-2.428	-0.396	1.00	0.00
ATOM	306	HA	GLU .	A 25	143.075	-4.452	-0.449	1.00	0.00
ATOM	307	1HB	GLU .	A 25	5 140.527	-5.117	-0.170	1.00	0.00
ATOM	308	2HB	GLU .	A 25	5 140.512	-4.894	-1.915	1.00	0.00
ATOM	309	1HG	GLU .	A 25	5 142.594	-6.451	-1.858	1.00	0.00
ATOM	310	2HG	GLU .	A 25	5 141.970	-6.913	-0.275	1.00	0.00

ATOM	311	N	VAL	A	26	143.528	-4.243	-2.954	1.00	0.00
ATOM	312	CA	VAL	A	26	143.998	-3.869	-4.282	1.00	0.00
ATOM	313	С	VAL	A	26	143.826	-5.020	-5.268	1.00	0.00
ATOM	314	0	VAL	A	26	144.136	-6.170	-4.955	1.00	0.00
ATOM	315	CB	VAL	A	26	145.480	-3.446	-4.258	1.00	0.00
ATOM	316	CG1	VAL	A	26	145.909	-2.913	-5.616	1.00	0.00
ATOM	317	CG2	VAL	A	26	145.722	-2.410	-3.170	1.00	0.00
ATOM	318	H	VAL	A	26	143.901	-5.039	-2.521	1.00	0.00
ATOM	319	HA	VAL	A	26	143.411	-3.027	-4.621	1.00	0.00
ATOM	320	HB	VAL	A	26	146.078	-4.318	-4.033	1.00	0.00
ATOM	321	1HG1	VAL	A	26	145.900	-1.833	-5.598	1.00	0.00
ATOM	322	2HG1	VAL	A	26	145.225	-3.266	-6.374	1.00	0.00
ATOM	323	3HG1	VAL	A	26	146.905	-3.261	-5.841	1.00	0.00
ATOM	324	1HG2	VAL	A	26	146.651	-2.631	-2.663	1.00	0.00
ATOM	325	2HG2	VAL	A	26	144.909	-2.434	-2.460	1.00	0.00
ATOM	326	3HG2	VAL	A	26	145.781	-1.428	-3.616	1.00	0.00
ATOM	327	N	LYS	A	27	143.330	-4.704	-6.460	1.00	0.00
ATOM	328	CA	LYS	A	27	143.116	-5.712	-7.491	1.00	0.00
ATOM	329	C	LYS	A	27	144.437	-6.118	-8.137	1.00	0.00
ATOM	330	0	LYS	A	27	144.790	-5.631	-9.211	1.00	0.00
ATOM	331	CB	LYS	A	27	142.155	-5.184	-8.558	1.00	0.00
ATOM	332	CG	LYS	A	27	140.694	-5.475	-8.257	1.00	0.00
ATOM	333	CD	LYS	A	27	139.793	-4.342	-8.722	1.00	0.00
ATOM	334	CE	LYS	A	27	138.436	-4.857	-9.172	1.00	0.00
MOTA	335	NZ	LYS	A	27	137.427	-4.798	-8.079	1.00	0.00
ATOM	336	H	LYS	A	27	143.102	-3.769	-6.649	1.00	0.00
ATOM	337	HA	LYS	A	27	142.677	-6.579	-7.021	1.00	0.00
ATOM	338	1HB	LYS	A	27	142.277	-4.114	-8.639	1.00	0.00
ATOM	339	2HB	LYS	A	27	142.403	-5.638	-9.506	1.00	0.00

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LYS A
                        27 140.405
                                    -6.382
                                             -8.767 1.00 0.00
ATOM 340
           1HG
                                     -5.604
                                             -7.192 1.00 0.00
ATOM 341
           2HG
                LYS A
                        27 140.574
                                             -7.905 1.00 0.00
ATOM 342
           1HD
                LYS A
                        27 139.650
                                     -3.651
ATOM 343
           2HD
                LYS A
                        27 140.268
                                     -3.833
                                             -9.549 1.00 0.00
            1HE
                LYS A
                        27 138.092
                                    -4.255 -10.000 1.00 0.00
ATOM 344
                LYS A
                        27 138.544
                                     -5.883
                                             -9.497 \ 1.00 \ 0.00
ATOM 345
           2HE
           1HZ
                LYS A
                                     -4.552
                                             -8.466 1.00 0.00
ATOM 346
                        27 136.494
                                     -4.079
                                             -7.379 1.00 0.00
ATOM 347
            2HZ
                LYS A
                        27 137.700
                LYS A
                                     -5.721
                                             -7.603 1.00 0.00
ATOM 348
            3HZ
                        27 137.361
                 GLU A
                                     -7.014
                                             -7.475 1.00 0.00
                        28 145.162
ATOM 349
           N
                                             -7.986 1.00 0.00
                 GLU A
                        28 146.444
                                     -7.487
ATOM 350
            CA
                                              -8.076 1.00 0.00
            C
                        28 146.465
                                     -9.010
ATOM 351
                 GLU A
                         28 145.504
                                     -9.678
                                              -7.694 1.00 0.00
ATOM 352
            0
                 GLU A
                                              -7.090 1.00 0.00
                                     -6.998
                 GLU A
                         28 147.585
ATOM 353
            CB
                                     -6.358
                                              -7.858 1.00 0.00
            CG
                 GLU A
                         28 148.729
ATOM 354
                                              -6.951 \ 1.00 \ 0.00
                                     -5.889
ATOM 355
            CD
                 GLU A
                         28 149.850
                                              -6.811 1.00 0.00
                 GLU A
                         28 150.027
                                     -4.661
ATOM 356
            0E1
                                              -6.378 1.00 0.00
            0E2
                 GLU A
                         28 150.550
                                     -6.751
ATOM 357
                                              -6.625 1.00 0.00
                                     -7.367
ATOM 358
            H
                 GLU A
                         28 144.828
                 GLU A
                         28 146.577
                                     -7.079
                                              -8.976 1.00 0.00
ATOM 359
            HA
                                     -6.271
                                              -6.394 1.00 0.00
            1HB
                 GLU A
                         28 147.195
ATOM 360
                                     -7.838
                                              -6.535 1.00 0.00
            2HB
                 GLU A
                         28 147.979
ATOM 361
                                              -8.553 1.00 0.00
                 GLU A
                         28 149.129
                                     -7.080
ATOM 362
            1HG
                                              -8.404 1.00 0.00
                         28 148.348
                                     -5.507
ATOM 363
            2HG
                 GLU A
                                              -8.582 1.00 0.00
ATOM 364
            N
                 ASN A
                         29 147.568
                                      -9.551
                         29 147.716 -10.996
                 ASN A
                                              -8.721 1.00 0.00
ATOM 365
            CA
                         29 147.613 -11.688
                                              -7.363 1.00 0.00
ATOM 366
            C
                 ASN A
                         29 146.752 -12.543
                                              -7.158 1.00 0.00
ATOM 367
            0
                  ASN A
                                              -9.380 1.00 0.00
 ATOM 368
            CB
                  ASN A
                         29 149.055 -11.331
```

ATOM 369	CG	ASN A	29 148.926 -11.543 -10.876 1.00 0.00
ATOM 370	OD1	ASN A	29 149.065 -12.662 -11.371 1.00 0.00
ATOM 371	ND2	ASN A	29 148.660 -10.465 -11.605 1.00 0.00
ATOM 372	H	ASN A	29 148.301 -8.967 -8.868 1.00 0.00
ATOM 373	HA	ASN A	29 146.915 -11.351 -9.353 1.00 0.00
ATOM 374	1HB	ASN A	29 149.747 -10.520 -9.210 1.00 0.00
ATOM 375	2HB	ASN A	29 149.451 -12.235 -8.939 1.00 0.00
ATOM 376	1HD2	ASN A	29 148.563 -9.606 -11.144 1.00 0.00
ATOM 377	2HD2	ASN A	29 148.571 -10.574 -12.575 1.00 0.00
ATOM 378	N	PRO A	30 148.497 -11.327 -6.416 1.00 0.00
ATOM 379	CA	PRO A	30 148.502 -11.917 -5.076 1.00 0.00
ATOM 380	С	PRO A	30 147.380 -11.368 -4.195 1.00 0.00
ATOM 381	0	PRO A	30 147.416 -10.208 -3.786 1.00 0.00
ATOM 382	CB	PRO A	30 149.865 -11.505 -4.521 1.00 0.00
ATOM 383	CG	PRO A	30 150.175 -10.219 -5.206 1.00 0.00
ATOM 384	CD	PRO A	30 149.559 -10.314 -6.578 1.00 0.00
ATOM 385	HA	PRO A	30 148.437 -12.993 -5.117 1.00 0.00
ATOM 386	1HB	PRO A	30 149.797 -11.378 -3.450 1.00 0.00
ATOM 387	2HB	PRO A	30 150.597 -12.263 -4.755 1.00 0.00
ATOM 388	1HG	PRO A	30 149.739 -9.397 -4.657 1.00 0.00
ATOM 389	2HG	PRO A	30 151.244 -10.094 -5.285 1.00 0.00
ATOM 390	1HD	PRO A	30 149.142 -9.362 -6.870 1.00 0.00
ATOM 391	2HD	PRO A	30 150.294 -10.640 -7.298 1.00 0.00
ATOM 392	N	PRO A	31 146.363 -12.196 -3.889 1.00 0.00
ATOM 393	CA	PRO A	31 145.234 -11.777 -3.052 1.00 0.00
ATOM 394	С	PRO A	31 145.642 -11.550 -1.601 1.00 0.00
ATOM 395	0	PRO A	31 145.519 -12.444 -0.764 1.00 0.00
ATOM 396	CB	PRO A	31 144.257 -12.951 -3.155 1.00 0.00
ATOM 397	CG	PRO A	31 145.111 -14.127 -3.484 1.00 0.00

ATOM	398	CD	PRO A	31 146.234 -13.598 -4.331 1.00 0.00
ATOM	399	HA	PRO A	31 144.767 -10.882 -3.438 1.00 0.00
ATOM	400	1HB	PRO A	31 143.748 -13.083 -2.212 1.00 0.00
ATOM	401	2HB	PRO A	31 143.537 -12.757 -3.936 1.00 0.00
ATOM	402	1HG	PRO A	31 145.499 -14.563 -2.575 1.00 0.00
ATOM	403	2HG	PRO A	31 144.536 -14.855 -4.037 1.00 0.00
ATOM	404	1HD	PRO A	31 147.143 -14.148 -4.138 1.00 0.00
ATOM	405	2HD	PRO A	31 145.974 -13.649 -5.378 1.00 0.00
ATOM	406	N .	PHE A	32 146.130 -10.348 -1.310 1.00 0.00
ATOM	407	CA	PHE A	32 146.557 -10.002 0.040 1.00 0.00
ATOM	408	С	PHE A	32 145.562 -9.052 0.699 1.00 0.00
ATOM	409	0	PHE A	32 144.630 -8.569 0.056 1.00 0.00
ATOM	410	CB	PHE A	32 147.947 -9.364 0.009 1.00 0.00
ATOM	411	CG	PHE A	32 148.016 -8.116 -0.824 1.00 0.00
ATOM	412	CD1	PHE A	32 148.649 -8.124 -2.056 1.00 0.00
ATOM	413	CD2	PHE A	32 147.447 -6.935 -0.374 1.00 0.00
ATOM	414	CE1	PHE A	32 148.713 -6.978 -2.825 1.00 0.00
ATOM	415	CE2	PHE A	32 147.508 -5.785 -1.139 1.00 0.00
ATOM	416	CZ	PHE A	32 148.143 -5.807 -2.366 1.00 0.00
ATOM	417	Н	PHE A	32 146.203 -9.678 -2.022 1.00 0.00
ATOM	418	HA	PHE A	32 146.602 -10.913 0.617 1.00 0.00
ATOM	419	1HB	PHE A	32 148.240 -9.107 1.017 1.00 0.00
ATOM	420	2HB	PHE A	32 148.652 -10.075 -0.395 1.00 0.00
ATOM	421	HD1	PHE A	32 149.095 -9.039 -2.416 1.00 0.00
ATOM	422	HD2	PHE A	32 146.950 -6.918 0.584 1.00 0.00
ATOM	423	HE1	PHE A	32 149.211 -6.997 -3.784 1.00 0.00
ATOM	424	HE2	PHE A	32 147.060 -4.872 -0.778 1.00 0.00
ATOM	425	HZ	PHE A	32 148.192 -4.910 -2.965 1.00 0.00
ATOM	426	N	TYR A	33 145.770 -8.785 1.984 1.00 0.00

ATOM 427	CA	TYR A	33 144.892 -7.892	2.731 1.00 0.00
ATOM 428	С	TYR A	33 145.696 -7.001	3.673 1.00 0.00
ATOM 429	0	TYR A	33 146.335 -7.487	4.607 1.00 0.00
ATOM 430	СВ	TYR A	33 143.865 -8.699	3.527 1.00 0.00
ATOM 431	CG	TYR A	33 142.662 -9.121	2.712 1.00 0.00
ATOM 432	CD1	TYR A	33 141.948 -8.193	1.962 1.00 0.00
ATOM 433	CD2	TYR A	33 142.243 -10.444	2.691 1.00 0.00
ATOM 434	CE1	TYR A	33 140.848 -8.576	1.217 1.00 0.00
ATOM 435	CE2	TYR A	33 141.145 -10.833	1.947 1.00 0.00
ATOM 436	CZ	TYR A	33 140.452 -9.896	1.212 1.00 0.00
ATOM 437	OH	TYR A	33 139.358 -10.279	0.469 1.00 0.00
ATOM 438	H	TYR A	33 146.531 -9.200	2.442 1.00 0.00
ATOM 439	HA	TYR A	33 144.373 -7.267	2.020 1.00 0.00
ATOM 440	1HB	TYR A	33 144.335 -9.592	3.908 1.00 0.00
ATOM 441	2HB	TYR A	33 143.512 -8.102	4.355 1.00 0.00
ATOM 442	HD1	TYR A	33 142.261 -7.160	1.968 1.00 0.00
ATOM 443	HD2	TYR A	33 142.788 -11.177	3.268 1.00 0.00
ATOM 444	HE1	TYR A	33 140.306 -7.840	0.641 1.00 0.00
ATOM 445	HE2	TYR A	33 140.835 -11.869	1.943 1.00 0.00
ATOM 446	HH	TYR A	33 139.593 -11.028	-0.083 1.00 0.00
ATOM 447	N	GLY A	34 145.660 -5.697	3.422 1.00 0.00
ATOM 448	CA	GLY A	34 146.389 -4.761	4.257 1.00 0.00
ATOM 449	С	GLY A	34 145.568 -3.537	4.613 1.00 0.00
ATOM 450	0	GLY A	34 144.380 -3.465	4.294 1.00 0.00
ATOM 451	Н	GLY A	34 145.133 -5.368	2.664 1.00 0.00
ATOM 452	1HA	GLY A	34 146.683 -5.260	5.168 1.00 0.00
ATOM 453	2HA	GLY A	34 147.278 -4.443	3.731 1.00 0.00
ATOM 454	N	VAL A	35 146.200 -2.573	5.275 1.00 0.00
ATOM 455	CA	VAL A	35 145.520 -1.348	5.674 1.00 0.00

ATOM	456	С	VAL A	35	146.266	-0.117	5.168	1.00	0.00
ATOM	457	0	VAL A	35	147.494	-0.110	5.093	1.00	0.00
ATOM	458	CB	VAL A	35	145.376	-1.261	7.207	1.00	0.00
ATOM	459	CG1	VAL A	35	146.742	-1.264	7.877	1.00	0.00
ATOM	460	CG2	VAL A	35	144.581	-0.024	7.601	1.00	0.00
ATOM	461	Н	VAL A	35	147.147	-2.690	5.499	1.00	0.00
ATOM	462	HA	VAL A	35	144.531	-1.360	5.241	1.00	0.00
ATOM	463	HB	VAL A	35	144.834	-2.131	7.546	1.00	0.00
ATOM	464	1HG1	VAL A	35	146.735	-0.577	8.711	1.00	0.00
ATOM	465	2HG1	VAL A	35	147.493	-0.959	7.165	1.00	0.00
ATOM	466	3HG1	VAL A	35	146.965	-2.258	8.232	1.00	0.00
ATOM	467	1HG2	VAL A	35	144.998	0.843	7.113	1.00	0.00
ATOM	468	2HG2	VAL A	35	144.629	0.108	8.672	1.00	0.00
ATOM	469	3HG2	VAL A	35	143.551	-0.146	7.300	1.00	0.00
ATOM	470	N	ILE A	36	145.515	0.923	4.822	1.00	0.00
ATOM	471	CA	ILE A	36	146.105	2.160	4.324	1.00	0.00
ATOM	472	С	ILE A	36	147.035	2.779	5.362	1.00	0.00
ATOM	473	0	ILE A	36	146.862	2.574	6.564	1.00	0.00
ATOM	474	CB	ILE A	36	145.023	3.188	3.939	1.00	0.00
ATOM	475	CG1	ILE A	36	144.010	2.562	2.977	1.00	0.00
ATOM	476	CG2	ILE A	36	145.660	4.422	3.315	1.00	0.00
ATOM	477	CD1	ILE A	36	142.915	3.515	2.548	1.00	0.00
ATOM	478	Н	ILE A	36	144.540	0.859	4.905	1.00	0.00
ATOM	479	HA	ILE A	36	146.678	1.923	3.439	1.00	0.00
ATOM	480	HB	ILE A	36	144.512	3.494	4.840	1.00	0.00
ATOM	481	1HG1	ILE A	36	144.525	2.229	2.089	1.00	0.00
ATOM	482	2HG1	ILE A	36	143.544	1.715	3.457	1.00	0.00
ATOM	1 483	1HG2	ILE A	36	146.128	5.015	4.087	1.00	0.00
ATOM	1 484	2HG2	ILE A	36	144.900	5.009	2.822	1.00	0.00

ATOM	485	3HG2	ILE A	36 146.404	4.117	2.593 1.00 0.00
ATOM	486	1HD1	ILE A	36 142.149	3.548	3.308 1.00 0.00
ATOM	487	2HD1	ILE A	36 142.486	3.173	1.617 1.00 0.00
ATOM	488	3HD1	ILE A	36 143.330	4.502	2.412 1.00 0.00
ATOM	489	N	ARG A	37 148.020	3.537	4.891 1.00 0.00
ATOM	490	CA	ARG A	37 148.977	4.184	5.780 1.00 0.00
ATOM	491	С	ARG A	37 149.216	5.631	5.364 1.00 0.00
ATOM	492	0	ARG A	37 148.844	6.563	6.078 1.00 0.00
ATOM	493	CB	ARG A	37 150.300	3.418	5.782 1.00 0.00
ATOM	494	CG	ARG A	37 150.144	1.935	6.077 1.00 0.00
ATOM	495	CD	ARG A	37 150.115	1.667	7.572 1.00 0.00
ATOM	496	NE	ARG A	37 148.908	2.196	8.201 1.00 0.00
MOTA	497	CZ	ARG A	37 148.788	2.420	9.508 1.00 0.00
ATOM	498	NH1	ARG A	37 149.800	2.159	10.327 1.00 0.00
ATOM	499	NH2	ARG A	37 147.654	2.904	9.997 1.00 0.00
ATOM	500	H	ARG A	37 148.105	3.662	3.924 1.00 0.00
ATOM	501	HA	ARG A	37 148.563	4.173	6.778 1.00 0.00
ATOM	502	1HB	ARG A	37 150.766	3.523	4.813 1.00 0.00
ATOM	503	2HB	ARG A	37 150.950	3.845	6.532 1.00 0.00
ATOM	504	1HG	ARG A	37 149.220	1.587	5.641 1.00 0.00
ATOM	505	2HG	ARG A	37 150.976	1.402	5.640 1.00 0.00
ATOM	506	1HD	ARG A	37 150.154	0.600	7.734 1.00 0.00
ATOM	507	2HD	ARG A	37 150.979	2.130	8.025 1.00 0.00
ATOM	508	HE	ARG A	37 148.145	2.397	7.619 1.00 0.00
ATOM	509	1HH1	ARG A	37 150.657	1.793	9.966 1.00 0.00
ATOM	510	2HH1	ARG A	37 149.704	2.329	11.308 1.00 0.00
ATOM	511	1HH2	ARG A	37 146.890	3.103	9.384 1.00 0.00
ATOM	512	2HH2	ARG A	37 147.565	3.072	10.979 1.00 0.00
MOTA	513	N	TRP A	38 149.841	5.814	4.206 1.00 0.00

ATOM 514	CA	TRP A	38 150.132	7.149	3.697 1.00 0.00
ATOM 515	С	TRP A	38 149.473	7.373	2.337 1.00 0.00
ATOM 516	0	TRP A	38 149.599	6.550	1.431 1.00 0.00
ATOM 517	CB	TRP A	38 151.647	7.361	3.589 1.00 0.00
ATOM 518	CG	TRP A	38 152.027	8.592	2.820 1.00 0.00
ATOM 519	CD1	TRP A	38 152.264	9.837	3.329 1.00 0.00
ATOM 520	CD2	TRP A	38 152.208	8.696	1.403 1.00 0.00
ATOM 521	NE1	TRP A	38 152.581	10.708	2.314 1.00 0.00
ATOM 522	CE2	TRP A	38 152.554	10.031	1.123 1.00 0.00
ATOM 523	CE3	TRP A	38 152.112	7.789	0.344 1.00 0.00
ATOM 524	CZ2	TRP A	38 152.803	10.479	-0.172 1.00 0.00
ATOM 525	CZ3	TRP A	38 152.360	8.234	-0.940 1.00 0.00
ATOM 526	CH2	TRP A	38 152.702	9.569	-1.189 1.00 0.00
ATOM 527	Н	TRP A	38 150.114	5.032	3.682 1.00 0.00
ATOM 528	HA	TRP A	38 149.728	7.865	4.398 1.00 0.00
ATOM 529	1HB	TRP A	38 152.062	7.447	4.581 1.00 0.00
ATOM 530	2HB	TRP A	38 152.086	6.508	3.092 1.00 0.00
ATOM 531	HD1	TRP A	38 152.207	10.086	4.378 1.00 0.00
ATOM 532	HE1	TRP A	38 152.794	11.659	2.426 1.00 0.00
ATOM 533	HE3	TRP A	38 151.849	6.756	0.517 1.00 0.00
ATOM 534	HZ2	TRP A	38 153.065	11.506	-0.381 1.00 0.00
ATOM 535	HZ3	TRP A	38 152.290	7.547	-1.770 1.00 0.00
ATOM 536	НН2	TRP A	38 152.887	9.873	-2.209 1.00 0.00
ATOM 537	N	ILE A	39 148.781	8.499	2.204 1.00 0.00
ATOM 538	CA	ILE A	39 148.111	8.845	0.957 1.00 0.00
ATOM 539	С	ILE A	39 148.616	10.185	0.433 1.00 0.00
ATOM 540	0	ILE A	39 148.281	11.239	0.974 1.00 0.00
ATOM 541	CB	ILE A	39 146.583	8.917	1.137 1.00 0.00
ATOM 542	CG1	ILE A	39 146.066	7.647	1.816 1.00 0.00

ATOM !	543	CG2	ILE .	A	39	145.898	9.121	-0.206	1.00	0.00
ATOM !	544	CD1	ILE .	A	39	144.781	7.854	2.588	1.00	0.00
ATOM	545	H	ILE .	A	39	148.726	9.117	2.963	1.00	0.00
ATOM	546	HA	ILE .	A	39	148.335	8.077	0.231	1.00	0.00
ATOM	547	HB	ILE	A	39	146.356	9.767	1.761	1.00	0.00
ATOM	548	1HG1	ILE	A	39	145.881	6.894	1.064	1.00	0.00
ATOM	549	2HG1	ILE	A	39	146.814	7.285	2.506	1.00	0.00
ATOM	550	1HG2	ILE	A	39	146.213	8.348	-0.892	1.00	0.00
ATOM	551	2HG2	ILE	A	39	146.169	10.088	-0.605	1.00	0.00
ATOM	552	3HG2	ILE	A	39	144.827	9.073	-0.076	1.00	0.00
ATOM	553	1HD1	ILE	A	39	144.535	6.952	3.127	1.00	0.00
MOTA	554	2HD1	ILE	A	39	143.983	8.092	1.900	1.00	0.00
ATOM	555 -	3HD1	ILE	A	39	144.908	8.668	3.286	1.00	0.00
ATOM	556	N	GLY	A	40	149.429	10.140	-0.617	1.00	0.00
ATOM	557	CA	GLY	Ą	40	149.970	11.360	-1.185	1.00	0.00
ATOM	558	С	GLY	A	40	150.570	11.152	-2.561	1.00	0.00
ATOM	559	0	GLY	A	40	150.382	10.103	-3.177	1.00	0.00
ATOM	560	H	GLY	A	40	149.667	9.272	-1.006	1.00	0.00
ATOM	561	1HA	GLY	A	40	149.179	12.091	-1.257	1.00	0.00
ATOM	562	2HA	GLY	A	40	150.735	11.740	-0.525	1.00	0.00
ATOM	563	N	GLN	A	41	151.290	12.159	-3.044	1.00	0.00
ATOM	564	CA	GLN	A	41	151.919	12.094	-4.355	1.00	0.00
ATOM	565	С	GLN	A	41	153.396	12.478	-4.267	1.00	0.00
ATOM	566	0	GLN	A	41	153.728	13.616	-3.935	1.00	0.00
ATOM	567	CB	GLN	A	41	151.195	13.024	-5.325	1.00	0.00
ATOM	568	CG	GLN	A	41	149.683	12.862	-5.309	1.00	0.00
ATOM	569	CD	GLN	A	41	148.955	14.188	-5.405	1.00	0.00
ATOM	570	OE1	GLN	A	41	148.905	14.953	-4.443	1.00	0.00
ATOM	571	NE2	GLN	Α	41	148.387	14.464	-6.571	1.00	0.00

ATOM	572	H	GLN	A	41	151.398	12.969	-2.505	1.00	0.00
ATOM	573	HA	GLN	A	41	151.839	11.080	-4.713	1.00	0.00
ATOM	574	1HB	GLN	A	41	151.427	14.046	-5.067	1.00	0.00
ATOM	575	2HB	GLN	A	41	151.546	12.826	-6.325	1.00	0.00
ATOM	576	1HG	GLN	A	41	149.390	12.247	-6.145	1.00	0.00
ATOM	577	2HG	GLN	A	41	149.396	12.376	-4.388	1.00	0.00
ATOM	578	1HE2	GLN	A	41	148.468	13.805	-7.292	1.00	0.00
ATOM	579	2HE2	GLN	A	41	147.910	15.314	-6.665	1.00	0.00
ATOM	580	N .	PRO	A	42	154.309	11.532	-4.559	1.00	0.00
ATOM	581	CA	PRO	A	42	155.752	11.787	-4.505	1.00	0.00
ATOM	582	С	PRO	A	42	156.172	12.938	-5.414	1.00	0.00
ATOM	583	0	PRO	\mathbf{A}_{\perp}	42	155.454	13.294	-6.350	1.00	0.00
ATOM	584	CB	PRO	A	42	156.371	10.471	-4.989	1.00	0.00
ATOM	585	CG	PRO	A	42	155.320	9.444	-4.752	1.00	0.00
ATOM	586	CD	PRO	A	42	154.010	10.147	-4.961	1.00	0.00
ATOM	587	HA	PRO	A	42	156.079	11.991	-3.496	1.00	0.00
ATOM	588	1HB	PRO	A	42	156.616	10.552	-6.039	1.00	0.00
ATOM	589	2HB	PRO	A	42	157. 265	10.260	-4.420	1.00	0.00
ATOM	590	1HG	PRO	Α	42	155.429	8.634	-5.458	1.00	0.00
ATOM	591	2HG	PRO	A	42	155.389	9.074	-3.739	1.00	0.00
ATOM	592	1HD	PRO	A	42	153.719	10.100	-6.000	1.00	0.00
ATOM	593	2HD	PRO	A	42	153. 244	9.717	-4.331	1.00	0.00
ATOM	594	N	PRO) A	43	157.345	13.537	-5.151	1.00	0.00
ATOM	595	CA	PRC) A	43	157.858	14.653	-5.950	1.00	0.00
ATOM	596	С	PRC) A	43	158.331	14.206	-7.328	1.00	0.00
ATOM	597	0	PRO) A	43	159.507	13.894	-7.520	1.00	0.00
ATOM	598	CB	PRO) A	43	159.035	15.169	-5.124	1.00	0.00
ATOM	599	CG	PRO) A	43	159.493	13.989	-4.340	1.00	0.00
ATOM	600	CD	PRO) A	43	158.261	13.173	-4.054	1.00	0.00

ATOM 601	HA	PRO A	43 157.120	15.433 -6.060 1.00 0.00
ATOM 602	1HB	PRO A	43 159.809	15.530 -5.785 1.00 0.00
ATOM 603	2HB	PRO A	43 158.703	15.968 -4.478 1.00 0.00
ATOM 604	1HG	PRO A	43 160.198	13.412 -4.922 1.00 0.00
ATOM 605	2HG	PRO A	43 159.948	14.316 -3.417 1.00 0.00
ATOM 606	1HD	PRO A	43 158.493	12.119 -4.080 1.00 0.00
ATOM 607	2HD	PRO A	43 157.843	13.445 -3.096 1.00 0.00
ATOM 608	N	GLY A	44 157.411	14.178 -8.286 1.00 0.00
ATOM 609	CA	GLY A	44 157.758	13.769 -9.633 1.00 0.00
ATOM 610	С	GLY A	44 156.560	13.280 -10.418 1.00 0.00
ATOM 611	0	GLY A	44 156.327	13.716 -11.546 1.00 0.00
ATOM 612	Н	GLY A	44 156.490	14.438 -8.076 1.00 0.00
ATOM 613	1HA	GLY A	44 158.194	14.610 -10.151 1.00 0.00
ATOM 614	2HA	GLY A	44 158.488	12.976 -9.579 1.00 0.00
ATOM 615	N	LEU A	45 155.794	12.370 -9.824 1.00 0.00
ATOM 616	CA	LEU A	45 154.613	11.822 -10.479 1.00 0.00
ATOM 617	С	LEU A	45 153.363	12.082 -9.648 1.00 0.00
ATOM 618	0	LEU A	45 153.203	11.525 -8.562 1.00 0.00
ATOM 619	CB	LEU A	45 154.783	10.318 -10.708 1.00 0.00
ATOM 620	CG	LEU A	45 155.251	9.525 -9.486 1.00 0.00
ATOM 621	CD1	LEU A	45 154.856	8.060 -9.614 1.00 0.00
ATOM 622	CD2	LEU A	45 156.757	9.664 -9.304 1.00 0.00
ATOM 623	H	LEU A	45 156.030	12.060 -8.922 1.00 0.00
ATOM 624	HA	LEU A	45 154.505	12.313 -11.435 1.00 0.00
ATOM 625	1HB	LEU A	45 153.834	9.915 -11.032 1.00 0.00
ATOM 626	2HB	LEU A	45 155.504	10.175 -11.499 1.00 0.00
ATOM 627	HG	LEU A	45 154.770	9.923 -8.604 1.00 0.00
ATOM 628	1HD	1 LEU A	45 154.124	7.818 -8.858 1.00 0.00
ATOM 629	2HD	1 LEU A	45 155.729	7.438 -9.480 1.00 0.00

ATOM	630	3HD1	LEU	A	45	154.437	7.883	-10.593	1.00	0.00
ATOM	631	1HD2	LEU	A	45	156.974	9.910	-8.275	1.00	0.00
ATOM	632	2HD2	LEU	A	45	157.127	10.451	-9.947	1.00	0.00
ATOM	633	3HD2	LEU	A	45	157.239	8.733	-9.562	1.00	0.00
ATOM	634	N	ASN	A	46	152.477	12.930	-10.162	1.00	0.00
ATOM	635	CA	ASN	A	46	151.245	13.251	-9.454	1.00	0.00
ATOM	636	С	ASN	A	46	150.273	12.078	-9.511	1.00	0.00
ATOM	637	0	ASN	A	46	149.690	11.790	-10.556	1.00	0.00
ATOM	638	CB	ASN	A	46	150.597	14.498	-10.061	1.00	0.00
ATOM	639	CG	ASN	A	46	149.341	14.917	-9.325	1.00	0.00
ATOM	640	0D1	ASN	A	46	149.358	15.856	-8.529	1.00	0.00
ATOM	641	ND2	ASN	A	46	148. 241	14.221	-9.587	1.00	0.00
ATOM	642	Н	ASN	A	46	152.654	13.344	-11.032	1.00	0.00
ATOM	643	HA	ASN	A	46	151.494	13.450	-8.423	1.00	0.00
ATOM	644	1HB	ASN	A	46	151.301	15.315	-10.025	1.00	0.00
ATOM	645	2HB	ASN	A	46	150.338	14.296	-11.091	1.00	0.00
ATOM	646	1HD2	ASN	A	46	148.301	13.486	-10.233	1.00	0.00
ATOM	647	2HD2	ASN	A	46	147.413	14.471	-9.125	1.00	0.00
ATOM	648	N	GLU	A	47	150. 105	11.406	-8.378	1.00	0.00
ATOM	649	CA	GLU	A	47	149.205	10.262	-8.289	1.00	0.00
ATOM	650	С	GLU	A	47	148.956	9.884	-6.833	1.00	0.00
ATOM	651	0	GLU	A	47	149.896	9.621	-6.083	1.00	0.00
ATOM	652	CB	GLU	A	47	149.782	9.066	-9.049	1.00	0.00
ATOM	653	CG	GLU	A	47	151.289	8.916	-8.907	1.00	0.00
ATOM	654	CD	GLU	A	47	151.881	7.979	-9.941	1.00	0.00
ATOM	655	0E1	GLU	A	47	152.122	8.429	-11.081	1.00	0.00
ATOM	656	OE2	GLU	A	47	152.104	6.795	-9.612	1.00	0.00
ATON	657	Н	GLU	A	47	150.599	11.686	-7.58 0	1.00	0.00
ATON	1 658	HA	GLU	A	47	148.266	10.545	-8.740	1.00	0.00

ATOM (659	1HB	GLU A	47	149.317	8.163	-8.682	1.00	0.00
ATOM	660	2HB	GLU A	47	149.550	9.176	-10.099	1.00	0.00
ATOM	661	1HG	GLU A	47	151.746	9.887	-9.021	1.00	0.00
ATOM	662	2HG	GLU A	47	151.509	8.529	-7.924	1.00	0.00
ATOM	663	N	VAL A	48	147.688	9.850	-6.439	1.00	0.00
ATOM	664	CA	VAL A	48	147.331	9.494	-5.072	1.00	0.00
ATOM	665	С	VAL A	48	147.655	8.030	-4.795	1.00	0.00
ATOM	666	0	VAL A	48	146.912	7.133	-5.191	1.00	0.00
ATOM	667	CB	VAL A	48	145.835	9.739	-4.796	1.00	0.00
ATOM	668	CG1	VAL A	48	145.527	9.554	-3.319	1.00	0.00
ATOM	669	CG2	VAL A	A 48	145.427	11.128	-5.265	1.00	0.00
ATOM	670	Н	VAL A	A 48	146.979	10.064	-7.080	1.00	0.00
ATOM	671	HA	VAL A	A 48	147.908	10.113	-4.401	1.00	0.00
ATOM	672	HB	VAL A	A 48	145.263	9.012	-5.353	1.00	0.00
ATOM	673	1HG1	VAL A	A 48	145.685	8.522	-3.044	1.00	0.00
ATOM	674	2HG1	VAL A	A 48	144.498	9.824	-3.129	1.00	0.00
ATOM	675	3HG1	VAL A	A 48	146.178	10.186	-2.733	1.00	0.00
ATOM	676	1HG2	VAL A	A 48	145. 171	11.092	-6.314	1.00	0.00
ATOM	677	2HG2	VAL A	A 48	146.248	11.813	-5.118	1.00	0.00
ATOM	678	3HG2	VAL A	A 48	144.572	11.462	-4.697	1.00	0.00
ATOM	679	N	LEU A	A 49	148.771	7.795	-4.114	1.00	0.00
ATOM	680	CA	LEU A	A 49	149. 196	6.439	-3.787	1.00	0.00
ATOM	681	С	LEU A	A 49	149.018	6.158	-2.301	1.00	0.00
ATOM	682	0	LEU A	A 49	149.659	6.789	-1.460	1.00	0.00
ATOM	683	CB	LEU A	A 49	150.657	6.228	-4.185	1.00	0.00
ATOM	684	CG	LEU .	A 49	150.989	6.568	-5.640	1.00	0.00
ATOM	685	CD1	LEU	A 49	152.472	6.871	-5.792	1.00	0.00
ATOM	686	CD2	LEU .	A 49	150.580	5.427	-6.559	1.00	0.00
ATOM	687	H	LEU .	A 49	149.325	8.551	-3.824	1.00	0.00

ATOM 688	HA	LEU A	49 148.577	5.754	-4.347 1.00 0.00
ATOM 689	1HB	LEU A	49 151.275	6.841	-3.544 1.00 0.00
ATOM 690	2HB	LEU A	49 150.909	5. 192	-4.016 1.00 0.00
ATOM 691	HG	LEU A	49 150.437	7.449	-5.931 1.00 0.00
ATOM 692	1HD1	LEU A	49 152.882	7.153	-4.833 1.00 0.00
ATOM 693	2HD1	LEU A	49 152.604	7.682	-6.492 1.00 0.00
ATOM 694	3HD1	LEU A	49 152.984	5.993	-6.157 1.00 0.00
ATOM 695	1HD2	LEU A	49 149.667	4.980	-6.195 1.00 0.00
ATOM 696	2HD2	LEU A	49 151.362	4.682	-6.578 1.00 0.00
ATOM 697	3HD2	LEU A	49 150.421	5.808	-7.556 1.00 0.00
ATOM 698	N	ALA A	50 148.145	5.210	-1.983 1.00 0.00
ATOM 699	CA	ALA A	50 147.887	4.849	-0.596 1.00 0.00
ATOM 700	C	ALA A	50 148.794	3.707	-0.151 1.00 0.00
ATOM 701	0	ALA A	50 148.698	2.591	-0.660 1.00 0.00
ATOM 702	CB	ALA A	50 146.426	4.471	-0.412 1.00 0.00
ATOM 703	Н	ALA A	50 147.665	4.741	-2.698 1.00 0.00
ATOM 704	HA	ALA A	50 148.091	5.718	0.013 1.00 0.00
ATOM 705	1HB	ALA A	50 146.071	4.857	0.531 1.00 0.00
ATOM 706	2HB	ALA A	50 146.329	3.395	-0.421 1.00 0.00
ATOM 707	ЗНВ	ALA A	50 145.841	4.890	-1.217 1.00 0.00
ATOM 708	N	GLY A	51 149.675	3.995	0.801 1.00 0.00
ATOM 709	CA	GLY A	51 150.587	2.981	1.299 1.00 0.00
ATOM 710	С	GLY A	51 149.892	1.946	2.160 1.00 0.00
ATOM 711	0	GLY A	51 149.589	2.200	3.325 1.00 0.00
ATOM 712	Н	GLY A	51 149.707	4.902	1.170 1.00 0.00
ATOM 713	1HA	GLY A	51 151.047	2.483	0.458 1.00 0.00
ATOM 714	2HA	GLY A	51 151.356	3.462	1.885 1.00 0.00
ATOM 715	N	LEU A	52 149.638	0.775	1.585 1.00 0.00
ATOM 716	CA	LEU A	52 148.973	-0.303	2.309 1.00 0.00

ATOM 717	С	LEU A	52 149.989	-1.169	3.048 1.00 0.00
ATOM 718	0	LEU A	52 151.096	-1.398	2.561 1.00 0.00
ATOM 719	CB	LEU A	52 148.157	-1.166	1.345 1.00 0.00
ATOM 720	CG	LEU A	52 146.971	-0.456	0.688 1.00 0.00
ATOM 721	CD1	LEU A	52 146.473	-1.249	-0.511 1.00 0.00
ATOM 722	CD2	LEU A	52 145.850	-0.249	1.695 1.00 0.00
ATOM 723	Н	LEU A	52 149.904	0.632	0.653 1.00 0.00
ATOM 724	HA	LEU A	52 148.307	0.145	3.030 1.00 0.00
ATOM 725	1HB	LEU A	52 148.816	-1.520	0.565 1.00 0.00
ATOM 726	2HB	LEU A	52 147.780	-2.018	1.889 1.00 0.00
ATOM 727	HG	LEU A	52 147.291	0.514	0.337 1.00 0.00
ATOM 728	1HD1	LEU A	52 147.292	-1.809	-0.937 1.00 0.00
ATOM 729	2HD1	LEU A	52 146.077	-0.569	-1.252 1.00 0.00
ATOM 730	3HD1	LEU A	52 145.696	-1.929	-0.195 1.00 0.00
ATOM 731	1HD2	2 LEU A	52 145.336	-1.185	1.860 1.00 0.00
ATOM 732	2HD2	2 LEU A	52 145.154	0.482	1.314 1.00 0.00
ATOM 733	3HD2	2 LEU A	52 146.266	0.102	2.628 1.00 0.00
ATOM 734	N	GLU A	53 149 603	-1.646	4.227 1.00 0.00
ATOM 735	CA	GLU A	53 150.479	-2.487	5.035 1.00 0.00
ATOM 736	C	GLU A	53 149.945	-3.914	5.110 1.00 0.00
ATOM 737	0	GLU A	53 148.905	-4.167	5.719 1.00 0.00
ATOM 738	CB	GLU A	53 150.619	-1.908	6.444 1.00 0.00
ATOM 739	CG	GLU A	53 151.548	-2.709	7.342 1.00 0.00
ATOM 740	CD	GLU A	53 151.003	-2.872	8.747 1.00 0.00
ATOM 741	0E1	GLU A	53 150.405	-3.929	9.034 1.00 0.00
ATOM 742	0E2	GLU A	53 151.176	-1.940	9.563 1.00 0.00
ATOM 743	H	GLU A	53 148.708	-1.428	4.562 1.00 0.00
ATOM 744	HA	GLU A	53 151.451	-2.503	4.564 1.00 0.00
ATOM 745	1HB	GLU A	53 151.004	-0.902	6.370 1.00 0.00

ATOM 746	2HB	GLU A	53 149.644	-1.877	6.907 1.00 0.00
ATOM 747	1HG	GLU A	53 151.686	-3.690	6.911 1.00 0.00
ATOM 748	2HG	GLU A	53 152.500	-2.203	7.396 1.00 0.00
ATOM 749	N	LEU A	54 150.663	-4.842	4.488 1.00 0.00
ATOM 750	CA	LEU A	54 150.262	-6.244	4.484 1.00 0.00
ATOM 751	C	LEU A	54 150.392	-6.851	5.878 1.00 0.00
ATOM 752	0	LEU A	54 151.214	-6.411	6.682 1.00 0.00
ATOM 753	CB	LEU A	54 151.110	-7.037	3.488 1.00 0.00
ATOM 754	CG	LEU A	54 151.206	-6.425	2.090 1.00 0.00
ATOM 755	CD1	LEU A	54 152.397	-6.999	1.338 1.00 0.00
ATOM 756	CD2	LEU A	54 149.919	-6.664	1.315 1.00 0.00
ATOM 757	Н	LEU A	54 151.483	-4.580	4.020 1.00 0.00
ATOM 758	HA	LEU A	54 149.227	-6.292	4.180 1.00 0.00
ATOM 759	1HB	LEU A	54 152.108	-7.127	3.890 1.00 0.00
ATOM 760	2HB	LEU A	54 150.687	-8.026	3.396 1.00 0.00
ATOM 761	HG	LEU A	54 151.352	-5.358	2.180 1.00 0.00
ATOM 762	1HD1	LEU A	54 152.143	-7.976	0.952 1.00 0.00
ATOM 763	2HD1	LEU A	54 153.239	-7.086	2.009 1.00 0.00
ATOM 764	3HD1	LEU A	54 152.656	-6.345	0.519 1.00 0.00
ATOM 765	1HD2	LEU A	54 149.250	-5.828	1.463 1.00 0.00
ATOM 766	2HD2	LEU A	54 149.448	-7.569	1.667 1.00 0.00
ATOM 767	3HD2	LEU A	54 150.145	-6.761	0.263 1.00 0.00
ATOM 768	N	GLU A	55 149.577	-7.864	6.156 1.00 0.00
ATOM 769	CA	GLU A	55 149.603	-8.531	7.451 1.00 0.00
ATOM 770	С	GLU A	55 150.652	-9.638	7.472 1.00 0.00
ATOM 771	0	GLU A	55 151.247	-9.925	8.511 1.00 0.00
ATOM 772	CB	GLU A	55 148.225	-9.112	7.777 1.00 0.00
ATOM 773	CG	GLU A	55 147.239	-8.081	8.300 1.00 0.00
ATOM 774	CD	GLU A	55 147.170	-8.058	9.815 1.00 0.00

ATOM	775	OE1	GLU A	5	5	146.195	-8.603	10.374	1.00	0.00
ATOM	776	0E2	GLU A	1 5	5	148.091	-7.4 95	10.444	1.00	0.00
ATOM	777	Н	GLU A	1 5	5	148.945	-8.169	5.473	1.00	0.00
ATOM	778	HA	GLU A	A 5	5	149.859	-7.795	8.199	1.00	0.00
ATOM	779	1HB	GLU A	A 5	5	147.812	-9.551	6.880	1.00	0.00
ATOM	780	2HB	GLU A	A 5	5	148.339	-9.882	8.525	1.00	0.00
ATOM	781	1HG	GLU A	A 5	5	147.543	-7.103	7.955	1.00	0.00
ATOM	782	2HG	GLU A	A 5	55	146.258	-8.311	7.913	1.00	0.00
ATOM	783	N	ASP A	A 5	6	150.874	-10.258	6.317	1.00	0.00
ATOM	784	CA	ASP A	A 5	6	151.851	-11.333	6.202	1.00	0.00
ATOM	785	C	ASP A	A 5	6	153.173	-10.811	5.649	1.00	0.00
ATOM	786	0	ASP A	A E	6	153.208	-10.169	4.599	1.00	0.00
ATOM	787	CB	ASP A	A 5	6	151.313	-12.446	5.301	1.00	0.00
MOTA	788	CG	ASP	A 5	6	150.352	-13.365	6.029	1.00	0.00
ATOM	789	0D1	ASP A	A 5	56	149.236	-13.588	5.512	1.00	0.00
ATOM	790	0D2	ASP A	A :	56	150.715	-13.864	7.114	1.00	0.00
ATOM	791	Н	ASP A	A S	56	150.368	-9.984	5.523	1.00	0.00
ATOM	792	HA	ASP .	A !	56	152.022	-11.733	7.190	1.00	0.00
ATOM	793	1HB	ASP .	A :	56	150.793	-12.004	4.464	1.00	0.00
ATOM	794	2HB	ASP .	A :	56	152.140	-13.036	4.934	1.00	0.00
ATOM	795	N	GLU .	A !	57	154.259	-11.088	6.363	1.00	0.00
ATOM	796	CA	GLU .	A :	57	155.584	-10.645	5.943	1.00	0.00
ATOM	797	С	GLU .	A !	57	156.033	-11.387	4.689	1.00	0.00
ATOM	798	0	GLU .	A !	57	156.555	-12.499	4.766	1.00	0.00
ATOM	799	СВ	GLU	A	57	156.597	-10.862	7.068	1.00	0.00
MOTA	800	CG	GLU	A	57	156.634	-9.728	8.079	1.00	0.00
MOTA	801	CD	GLU	A	57	157.934	-9.686	8.859	1.00	0.00
ATOM	802	0E1	GLU	A	57	158.886	-9.025	8.391	1.00	0.00
ATOM	803	0E2	GLU	A	57	158.001	-10.312	9.938	1.00	0.00

ATOM 804	Н	GLU A	57 154.167 -11.603	7.192 1.00 0.00
ATOM 805	HA	GLU A	57 155.525 -9.590	5.722 1.00 0.00
ATOM 806	1HB	GLU A	57 156.348 -11.774	7.591 1.00 0.00
ATOM 807	2HB	GLU A	57 157.582 -10.963	6.636 1.00 0.00
ATOM 808	1HG	GLU A	57 156.517 -8.792	7.557 1.00 0.00
ATOM 809	2HG	GLU A	57 155.819 -9.856	8.776 1.00 0.00
ATOM 810	N	CYS A	58 155.825 -10.764	3.533 1.00 0.00
ATOM 811	CA	CYS A	58 156.210 -11.364	2.261 1.00 0.00
ATOM 812	С	CYS A	58 157.455 -10.689	1.695 1.00 0.00
ATOM 813	0	CYS A	58 157.512 -9.465	1.580 1.00 0.00
ATOM 814	CB	CYS A	58 155.060 -11.263	1.258 1.00 0.00
ATOM 815	SG	CYS A	58 155.200 -12.400	-0.142 1.00 0.00
ATOM 816	H	CYS A	58 155.405 -9.879	3.536 1.00 0.00
ATOM 817	HA	CYS A	58 156.429 -12.406	2.440 1.00 0.00
ATOM 818	1HB	CYS A	58 154.131 -11.480	1.763 1.00 0.00
ATOM 819	2HB	CYS A	58 155.023 -10.257	0.864 1.00 0.00
ATOM 820	HG	CYS A	58 155.346 -13.282	0.206 1.00 0.00
ATOM 821	N	ALA A	59 158.450 -11.497	1.343 1.00 0.00
ATOM 822	CA	ALA A	59 159.695 -10.978	0.787 1.00 0.00
ATOM 823	С	ALA A	59 159.453 -10.283	-0.548 1.00 0.00
ATOM 824	0	ALA A	59 158.956 -10.893	-1.495 1.00 0.00
ATOM 825	СВ	ALA A	59 160.709 -12.100	0.625 1.00 0.00
ATOM 826	H	ALA A	59 158.345 -12.464	1.458 1.00 0.00
ATOM 827	HA	ALA A	59 160.097 -10.259	1.487 1.00 0.00
ATOM 828	1HB	ALA A	59 161.226 -12.256	1.561 1.00 0.00
ATOM 829	2HB	ALA A	59 161.421 -11.833	-0.141 1.00 0.00
ATOM 830	ЗНВ	ALA A	59 160.197 -13.008	0.341 1.00 0.00
ATOM 831	N	GLY A	60 159.808 -9.005	-0.618 1.00 0.00
ATOM 832	CA	GLY A	60 159.622 -8.249	-1.842 1.00 0.00

ATOM 83	33	С	GLY A	A	60	159.10)5 -	-6.847	-1.587	1.00	0.00
ATOM 83	34	0	GLY A	A	60	159.36	54 ·	-5.931	-2.367	1.00	0.00
ATOM 83	35	H	GLY .	A	60	160.20	00	-8.570	0.169	1.00	0.00
ATOM 8	36	1HA	GLY .	A	60	160.56	68	-8.184	-2.359	1.00	0.00
ATOM 8	37	2HA	GLY .	A	60	158.91	16	-8.772	-2.471	1.00	0.00
ATOM 8	38	N	CYS .	A	61	158.37	72	-6.679	-0.491	1.00	0.00
ATOM 8	39	CA	CYS	A	61	157.83	18	-5.378	-0.135	1.00	0.00
ATOM 8	40	С	CYS	A	61	158.83	17	-4.564	0.680	1.00	0.00
ATOM 8	41	0	CYS	A	61	159.82	28	-5.091	1.147	1.00	0.00
ATOM 8	342	CB	CYS	A	61	156.5	19	-5.553	0.656	1.00	0.00
ATOM 8	343	SG	CYS	A	61	155.2	73	-6.557	-0.185	1.00	0.00
ATOM 8	844	H	CYS	A	61	158.2	00	-7.447	0.092	1.00	0.00
ATOM 8	845	HA	CYS	A	61	157.6	02	-4.848	-1.050	1.00	0.00
ATOM 8	346	1HB	CYS	A	61	156.7	42	-6.029	1.598	1.00	0.00
ATOM 8	347	2HB	CYS	A	61	156.0	87	-4.581	0.843	1.00	0.00
ATOM 8	348	HG	CYS	A	61	154.7	'55	-7.009	0.485	1.00	0.00
ATOM 8	349	N	THR	A	62	158.5	529	-3.278	0.848	1.00	0.00
ATOM 8	850	CA	THR	A	62	159.4	102	-2.391	1.608	1.00	0.00
ATOM 8	851	C	THR	A	62	158.9	917	-2.249	3.047	1.00	0.00
ATOM 8	852	0	THR	A	62	157.9	942	-2.885	3.448	1.00	0.00
ATOM 8	853	CB	THR	A	62	159.4	17 1	-1.016	0.942	2 1.00	0.00
ATOM 8	854	0G1	THR	A	62	158.2	253	-0.718	0.283	3 1.00	0.00
ATOM	855	CG2	THR	A	62	160.5	584	-0.898	-0.076	5 1.00	0.00
ATOM	856	Н	THR	Α	62	2 157.7	709	-2.916	0.453	3 1.00	0.00
ATOM	857	HA	THR	Α	62	2 160.3	390	-2.827	1.616	5 1.0	0.00
ATOM	858	HB	THR	. A	62	2 159.6	637	-0.267	1.703	3 1.0	0.00
ATOM	859	HG1	THR	A	62	2 158.2	243	0.209	0.033	3 1.0	0.00
ATOM	860	1HG2	2 THR	Α	62	2 161.	538	-0.993	0.42	1 1.0	0.00
MOTA	861	2HG2	2 THR	A	62	2 160.	526	0.064	-0.56	3 1.0	0.00

ATOM 862	3HG2	THR A	62 160.483	-1.681	-0.812 1.00 0.00
ATOM 863	N	ASP A	63 159.602	-1.412	3.818 1.00 0.00
ATOM 864	CA	ASP A	63 159.240	-1.185	5.212 1.00 0.00
ATOM 865	С	ASP A	63 158.612	0.192	5.394 1.00 0.00
ATOM 866	0	ASP A	63 158.751	0.814	6.448 1.00 0.00
ATOM 867	CB	ASP A	63 160.473	-1.319	6.108 1.00 0.00
ATOM 868	CG	ASP A	63 161.586	-0.372	5.706 1.00 0.00
ATOM 869	OD1	ASP A	63 162.107	-0.513	4.580 1.00 0.00
ATOM 870	OD2	ASP A	63 161.935	0.512	6.517 1.00 0.00
ATOM 871	Н	ASP A	63 160.370	-0.933	3.440 1.00 0.00
ATOM 872	HA	ASP A	63 158.518	-1.938	5.493 1.00 0.00
ATOM 873	1HB	ASP A	63 160.193	-1.104	7.129 1.00 0.00
ATOM 874	2HB	ASP A	63 160.846	-2.331	6.048 1.00 0.00
ATOM 875	N	GLY A	64 157.919	0.662	4.363 1.00 0.00
ATOM 876	CA	GLY A	64 157.278	1.963	4.429 1.00 0.00
ATOM 877	c	GLY A	64 158.053	3.031	3.681 1.00 0.00
ATOM 878	0	GLY A	64 158.129	4.177	4.125 1.00 0.00
ATOM 879	Н	GLY A	64 157.841	0.122	3.548 1.00 0.00
ATOM 880	1HA	GLY A	64 156.289	1.887	4.004 1.00 0.00
ATOM 881	2HA	GLY A	64 157.192	2.256	5.466 1.00 0.00
ATOM 882	N	THR A	65 158.628	2.654	2.544 1.00 0.00
ATOM 883	CA	THR A	65 159.401	3.587	1.733 1.00 0.00
ATOM 884	С	THR A	65 159.066	3.428	0.253 1.00 0.00
ATOM 885	0	THR A	65 159.267	2.360	-0.328 1.00 0.00
ATOM 886	CB	THR A	65 160.898	3.371	1.955 1.00 0.00
ATOM 887	OG1	THR A	65 161.198	1.990	2.046 1.00 0.00
ATOM 888	CG2	THR A	65 161.419	4.037	3.210 1.00 0.00
ATOM 889	H	THR A	65 158.532	1.726	2.243 1.00 0.00
ATOM 890	HA	THR A	65 159.141	4.589	2.042 1.00 0.00

ATOM	891	HB	THR	A	65	161.439	3.780	1.113	1.00	0.00
ATOM	892	HG1	THR	A	65	160.877	1.539	1.261	1.00	0.00
ATOM	893	1HG2	THR	A	65	161.665	5.067	2.995	1.00	0.00
ATOM	894	2HG2	THR	A	65	162.303	3.520	3.551	1.00	0.00
ATOM	895	3HG2	THR	A	65	160.661	4.001	3.978	1.00	0.00
ATOM	896	N	PHE	A	66	158.556	4.496	-0.352	1.00	0.00
ATOM	897	CA	PHE	A	66	158. 193	4.473	-1.764	1.00	0.00
ATOM	898	С	PHE	A	66	159.281	5.122	-2.615	1.00	0.00
ATOM	899	0	PHE	A	66	159.440	6.343	-2.613	1.00	0.00
ATOM	900	CB	PHE	A	66	156.862	5.195	-1.982	1.00	0.00
ATOM	901	CG	PHE	A	66	156.296	5.008	-3.360	1.00	0.00
ATOM	902	CD1	PHE	A	66	155.867	3.760	-3.784	1.00	0.00
ATOM	903	CD2	PHE	A	66	156.194	6.080	-4.233	1.00	0.00
ATOM	904	CE1	PHE	A	66	155.346	3.585	-5.052	1.00	0.00
ATOM	905	CE2	PHE	A	66	155.674	5.910	-5.502	1.00	0.00
ATOM	906	CZ	PHE	A	66	155. 249	4.662	-5.912	1.00	0.00
ATOM	907	Н	PHE	A	66	158.419	5.317	0.164	1.00	0.00
ATOM	908	HA	PHE	A	66	158.086	3.442	-2.063	1.00	0.00
ATOM	909	1HB	PHE	A	66	156.138	4.821	-1.272	1.00	0.00
ATOM	910	2HB	PHE	A	66	157.004	6.254	-1.820	1.00	0.00
ATOM	911	HD1	PHE	A	66	155.942	2.918	-3.112	1.00	0.00
ATOM	912	HD2	PHE	A	66	156.525	7.056	-3.913	1.00	0.00
ATOM	913	HE1	PHE	A	66	155.016	2.608	-5.371	1.00	0.00
ATOM	914	HE2	PHE	A	66	155.599	6.754	-6.172	1.00	0.00
ATOM	915	HZ	PHE	A	66	154.843	4.527	-6.904	1.00	0.00
ATOM	916	N	ARG	A	67	160.027	4.296	-3.341	1.00	0.00
ATOM	917	CA	ARG	A	67	161.100	4.789	-4.198	1.00	0.00
ATOM	918	С	ARG	A	67	162.157	5.521	-3.378	1.00	0.00
ATOM	919	0	ARG	A	67	162.675	6.557	-3.798	1.00	0.00

ATOM	920	CB	ARG	A	67	160.534	5.719	-5.274	1.00	0.00
ATOM	921	CG	ARG	A	67	159.459	5.073	-6.133	1.00	0.00
ATOM	922	CD	ARG	A	67	159.356	5.744	-7.493	1.00	0.00
ATOM	923	NE	ARG	A	67	159. 127	4.777	-8.564	1.00	0.00
ATOM	924	CZ	ARG	A	67	159. 155	5.084	-9.859	1.00	0.00
ATOM	925	NH1	ARG	A	67	159.400	6.331	-10.247	1.00	0.00
ATOM	926	NH2	ARG	A	67	158.938	4.145	-10.769	1.00	0.00
ATOM	927	H	ARG	A	67	159.851	3.333	-3.302	1.00	0.00
ATOM	928	HA	ARG	A	67	161.559	3.937	-4.677	1.00	0.00
ATOM	929	1HB	ARG	A	67	160.107	6.587	-4.794	1.00	0.00
ATOM	930	2HB	ARG	A	67	161.340	6.035	-5.920	1.00	0.00
ATOM	931	1HG	ARG	A	67	159.705	4.031	-6.275	1.00	0.00
ATOM	932	2HG	ARG	A	67	158.509	5. 156	-5.626	1.00	0.00
ATOM	933	1HD	ARG	A	67	158.534	6.444	-7.473	1.00	0.00
ATOM	934	2HD	ARG	A	67	160.275	6.275	-7.690	1.00	0.00
ATOM	935	HE	ARG	A	67	158.944	3.850	-8.305	1.00	0.00
ATOM	936	1HH1	ARG	A	67	159.565	7.044	-9.566	1.00	0.00
ATOM	937	2HH1	ARG	A	67	159.421	6.555	-11.221	1.00	0.00
ATOM	938	1HH2	ARG	A	67	158.753	3.205	-10.481	1.00	0.00
ATOM	939	2HH2	ARG	A	67	158.958	4.375	-11.741	1.00	0.00
ATOM	940	N	GLY	A	68	162.473	4.977	-2.208	1.00	0.00
ATOM	941	CA	GLY	A	68	163.468	5.592	-1.349	1.00	0.00
ATOM	942	С	GLY	A	68	162.935	6.814	-0.627	1.00	0.00
ATOM	943	0	GLY	A	68	163.691	7.728	-0.297	1.00	0.00
ATOM	944	Н	GLY	A	68	162.027	4.152	-1.926	1.00	0.00
ATOM	945	1HA	GLY	A	68	163.792	4.868	-0.617	1.00	0.00
ATOM	946	2HA	GLY	A	68	164.315	5.885	-1.950	1.00	0.00
ATOM	947	N	THR	A	69	161.629	6.830	-0.382	1.00	0.00
ATOM	948	CA	THR	A	69	160.994	7.950	0.305	1.00	0.00

ATOM	949	С	THR A	Ą	69	160.067	7.454	1.411	1.00 (0.00
ATOM	950	0	THR A	A	69	158.900	7.147	1.164	1.00	0.00
ATOM	951	CB	THR A	A	69	160.209	8.807	-0.689	1.00	0.00
ATOM	952	0G1	THR A	A	69	160.975	9.048	-1.855	1.00	0.00
ATOM	953	CG2	THR A	A	69	159.796	10.148	-0.125	1.00	0.00
ATOM	954	Н	THR A	A	69	161.078	6.073	-0.669	1.00	0.00
ATOM	955	HA	THR A	A	69	161.774	8.551	0.749	1.00	0.00
ATOM	956	HB	THR A	A	69	159.312	8.277	-0.974	1.00	0.00
ATOM	957	HG1	THR	A	69	160.699	8.445	-2.550	1.00	0.00
ATOM	958	1HG2	THR	A	69	160.366	10.356	0.768	1.00	0.00
ATOM	959	2HG2	THR	A	69	158.743	10.129	0.117	1.00	0.00
ATOM	960	3HG2	THR .	A	69	159.982	10.920	-0.858	1.00	0.00
ATOM	961	N	ARG .	A	70	160.593	7.377	2.629	1.00	0.00
ATOM	962	CA	ARG	A	70	159.811	6.918	3.771	1.00	0.00
ATOM	963	С	ARG	A	70	158.618	7.835	4.018	1.00	0.00
ATOM	964	0	ARG	A	70	158.749	9.059	4.005	1.00	0.00
ATOM	965	CB	ARG	A	70	160.689	6.855	5.023	1.00	0.00
ATOM	966	CG	ARG	A	70	159.948	6.370	6.260	1.00	0.00
ATOM	967	CD	ARG	A	70	160.069	7.358	7.410	1.00	0.00
ATOM	968	NE	ARG	A	70	160.228	6.685	8.697	1.00	0.00
ATOM	969	CZ	ARG	A	70	161.380	6.178	9.131	1.00	0.00
ATOM	970	NH1	ARG	A	70	162.475	6.264	8.385	1.00	0.00
ATOM	971	NH2	ARG	A	70	161.437	5.582	10.315	1.00	0.00
ATOM	972	Н	ARG	A	70	161.529	7.635	2.762	1.00	0.00
ATOM	973	HA	ARG	A	70	159.448	5.926	3.546	1.00	0.00
ATOM	974	1HB	ARG	A	70	161.513	6.181	4.838	1.00	0.00
ATOM	975	2HB	ARG	A	70	161.079	7.841	5.225	1.00	0.00
ATOM	976	1HG	ARG	A	70	158.904	6.245	6.016	1.00	0.00
ATOM	1 977	2HG	ARG	A	70	160.363	5.421	6.567	1.00	0.00

ATOM S	978	1HD	ARG A	70 160.928	7.989	7.237 1.00 0.00
ATOM S	979	2HD	ARG A	70 159.177	7.966	7.440 1.00 0.00
ATOM :	980	HE	ARG A	70 159.436	6.606	9.267 1.00 0.00
ATOM	981	1HH1	ARG A	70 162.438	6.711	7.492 1.00 0.00
ATOM	982	2HH1	ARG A	70 163.337	5.881	8.717 1.00 0.00
ATOM	983	1HH2	ARG A	70 160.615	5.515	10.880 1.00 0.00
ATOM	984	2HH2	ARG A	70 162.303	5.202	10.641 1.00 0.00
ATOM	985	N	TYR A	71 157.454	7.233	4.243 1.00 0.00
ATOM	986	CA	TYR A	71 156.236	7.995	4.494 1.00 0.00
ATOM	987	С	TYR A	71 155.691	7.705	5.889 1.00 0.00
ATOM	988	0	TYR A	71 155.213	8.606	6.578 1.00 0.00
ATOM	989	CB	TYR A	71 155.177	7.661	3.442 1.00 0.00
ATOM	990	CG	TYR A	71 155.365	8.402	2.137 1.00 0.00
ATOM	991	CD1	TYR A	71 155.369	7.722	0.925 1.00 0.00
ATOM	992	CD2	TYR A	71 155.540	9.780	2.117 1.00 0.00
ATOM	993	CE1	TYR A	71 155.542	8.396	-0.270 1.00 0.00
ATOM	994	CE2	TYR A	71 155.713	10.460	0.926 1.00 0.00
ATOM	995	CZ	TYR A	71 155.713	9.764	-0.263 1.00 0.00
ATOM	996	ОН	TYR A	71 155.885	10.437	-1.451 1.00 0.00
ATOM	997	Н	TYR A	71 157.415	6.255	4.240 1.00 0.00
ATOM	998	HA	TYR A	71 156.481	9.044	4.426 1.00 0.00
ATOM	999	1HB	TYR A	71 155.209	6.604	3.230 1.00 0.00
ATOM	1000	2HB	TYR A	71 154.202	7.916	3.831 1.00 0.00
ATOM	1001	HD1	TYR A	71 155.235	6.651	0.924 1.00 0.00
ATOM	1002	HD2	TYR A	71 155.541	10.323	3.050 1.00 0.00
ATOM	1003	HE1	TYR A	71 155.541	7.849	-1.202 1.00 0.00
ATOM	1004	HE2	TYR A	71 155.847	11.532	0.931 1.00 0.00
ATOM	1005	ΗН	TYR A	71 155.181	10.199	-2.060 1.00 0.00
ATOM	1006	N	PHE A	72 155.770	6.445	6.299 1.00 0.00

ATOM	1007	CA	PHE A	72 155.285	6.036	7.613 1.00 0.00
ATOM	1008	С	PHE A	72 156.210	4.994	8.234 1.00 0.00
ATOM	1009	0	PHE A	72 157.229	4.626	7.649 1.00 0.00
MOTA	1010	CB	PHE A	72 153.866	5.476	7.505 1.00 0.00
ATOM	1011	CG	PHE A	72 153.694	4.488	6.386 1.00 0.00
ATOM	1012	CD1	PHE A	72 153.520	4.923	5.082 1.00 0.00
ATOM	1013	CD2	PHE A	72 153.705	3.126	6.639 1.00 0.00
ATOM	1014	CE1	PHE A	72 153.360	4.017	4.050 1.00 0.00
ATOM	1015	CE2	PHE A	72 153.546	2.215	5.612 1.00 0.00
ATOM	1016	CZ	PHE A	72 153.374	2.662	4.316 1.00 0.00
ATOM	1017	H	PHE A	72 156.163	5.772	5.705 1.00 0.00
MOTA	1018	HA	PHE A	72 155.270	6.910	8.247 1.00 0.00
ATOM	1019	1HB	PHE A	72 153.612	4.977	8.429 1.00 0.00
ATOM	1020	2HB	PHE A	72 153.176	6.290	7.341 1.00 0.00
ATOM	1021	HD1	PHE A	72 153.509	5.983	4.874 1.00 0.00
ATOM	1022	HD2	PHE A	72 153.839	2.776	7.652 1.00 0.00
ATOM	1023	HE1	PHE A	72 153.225	4.369	3.039 1.00 0.00
ATOM	1024	HE2	PHE A	72 153.557	1.156	5.822 1.00 0.00
ATOM	1025	HZ	PHE A	72 153.250	1.952	3.511 1.00 0.00
ATOM	1026	N	THR A	73 155.849	4.521	9.422 1.00 0.00
ATOM	1027	CA	THR A	73 156.646	3.521	10.122 1.00 0.00
ATOM	1028	С	THR A	73 155.862	2.224	10.297 1.00 0.00
ATOM	1029	0	THR A	73 154.872	2.180	11.028 1.00 0.00
ATOM	1030	CB	THR A	73 157.085	4.053	11.487 1.00 0.00
ATOM	1031	OG1	THR A	73 157.756	3.047	12.225 1.00 0.00
ATOM	1032	CG2	THR A	73 155.934	4.552	12.333 1.00 0.00
ATOM	1033	Н	THR A	73 155.026	4.853	9.839 1.00 0.00
ATOM	i 1034	HA	THR A	73 157.523	3.320	9.526 1.00 0.00
ATON	1035	HB	THR A	73 157.767	4.877	11.339 1.00 0.00

ATOM	1036	HG1	THR	A	73	158.668	3.311	12.370	1.00	0.00
ATOM	1037	1HG2	THR	A	73	156.046	5.613	12.504	1.00	0.00
ATOM	1038	2HG2	THR	A	73	155.932	4.033	13.281	1.00	0.00
ATOM	1039	3HG2	THR	A	73	155.002	4.368	11.819	1.00	0.00
ATOM	1040	N	CYS	A	74	156.311	1.172	9.622	1.00	0.00
ATOM	1041	CA	CYS	A	74	155.651	-0.126	9.704	1.00	0.00
ATOM	1042	C	CYS	A	74	156.672	-1.259	9.654	1.00	0.00
ATOM	1043	0	CYS	A	74	157.867	-1.025	9.475	1.00	0.00
ATOM	1044	CB	CYS	A	74	154.644	-0.282	8.562	1.00	0.00
ATOM	1045	SG	CYS	A	74	152.993	0.348	8.944	1.00	0.00
ATOM	1046	Н	CYS	A	74	157. 105	1.270	9.056	1.00	0.00
ATOM	1047	HA	CYS	A	74	155.125	-0.172	10.644	1.00	0.00
ATOM	1048	1HB	CYS	A	74	155.007	0.252	7.697	1.00	0.00
ATOM	1049	2HB	CYS	A	74	154.548	-1.330	8.318	1.00	0.00
ATOM	1050	HG	CYS	A	74	153.037	0.799	9.791	1.00	0.00
ATOM	1051	N	ALA	A.	75	156.192	-2.488	9.816	1.00	0.00
ATOM	1052	CA	ALA	A	75	157.063	-3.657	9.791	1.00	0.00
ATOM	1053	С	ALA	A	75	157.708	-3.832	8.420	1.00	0.00
ATOM	1054	0	ALA	A	75	157.169	-3.385	7.408	1.00	0.00
ATOM	1055	CB	ALA	A	75	156.281	-4.906	10.171	1.00	0.00
ATOM	1056	H	ALA	A	75	155.231	-2.611	9.956	1.00	0.00
ATOM	1057	HA	ALA	A	75	157.840	-3.510	10.527	1.00	0.00
ATOM	1058	1HB	ALA	A	75	155.259	-4.806	9.836	1.00	0.00
ATOM	1059	2HB	ALA	A	7 5	156.298	-5.028	11.244	1.00	0.00
ATOM	1060	ЗНВ	ALA	A	75	156.730	-5.769	9.703	1.00	0.00
ATOM	1061	N	LEU	A	7Ġ	158.864	-4.486	8.395	1.00	0.00
ATOM	1062	CA	LEU	A	76	159.583	-4.720	7. 148	1.00	0.00
ATOM	1063	С	LEU	A	76	158.884	-5.784	6.309	1.00	0.00
ATOM	1064	0	LEU	A	76	158.277	-6.711	6.844	1.00	0.00

ATOM	1065	CB	LEU	A	76	161.023	-5. 147	7.437	1.00	0.00
ATOM	1066	CG	LEU	A	76	161.915	-4.055	8.031	1.00	0.00
ATOM	1067	CD1	LEU	A	76	161.985	-4.187	9.545	1.00	0.00
ATOM	1068	CD2	LEU	A	76	163.309	-4.116	7.425	1.00	0.00
ATOM	1069	H	LEU	A	76	159.244	-4.819	9.235	1.00	0.00
ATOM	1070	HA	LEU	A	76	159.597	-3.794	6.595	1.00	0.00
ATOM	1071	1HB	LEU	A	76	160.998	-5.979	8.127	1.00	0.00
ATOM	1072	2HB	LEU	A	76	161.469	-5.483	6.513	1.00	0.00
ATOM	1073	HG	LEU	A	76	161.491	-3.088	7.800	1.00	0.00
ATOM	1074	1HD1	LEU	A	76	161.129	-4.740	9.897	1.00	0.00
ATOM	1075	2HD1	LEU	A	76	161.987	-3.203	9.991	1.00	0.00
ATOM	1076	3HD1	LEU	A	76	162.890	-4.708	9.819	1.00	0.00
ATOM	1077	1HD2	LEU	A	76	163.238	-4.403	6.386	1.00	0.00
ATOM	1078	2HD2	LEU	.A	76	163.903	-4.844	7.959	1.00	0.00
ATOM	1079	3HD2	LEU	A	76	163.778	-3.146	7.499	1.00	0.00
ATOM	1080	N	LYS	A	77	158.974	-5.644	4.990	1.00	0.00
ATOM	1081	CA	LYS	A	77	158.350	-6.593	4.075	1.00	0.00
ATOM	1082	С	LYS	A	77	156.836	-6.610	4.257	1.00	0.00
ATOM	1083	0	LYS	A	77	156.193	-7.648	4.097	1.00	0.00
ATOM	1084	CB	LYS	A	77	158.918	-7.997	4.297	1.00	0.00
ATOM	1085	CG	LYS	A	77	160.436	-8.038	4.345	1.00	0.00
ATOM-	1086	CD	LYS	A	77	161.044	-7.809	2.971	1.00	0.00
ATOM	1087	CE	LYS	A	77	162.497	-7.372	3.069	1.00	0.00
ATOM	1088	NZ	LYS	A	77	163.335	-7.988	2.004	1.00	0.00
ATOM	1089	Н	LYS	A	77	159.473	-4.884	4.623	1.00	0.00
ATOM	1090	HA	LYS	A	77	158.575	-6.278	3.067	1.00	0.00
ATOM	1091	1HB	LYS	A	77	158.538	-8.382	5.231	1.00	0.00
ATOM	1092	2HB	LYS	A	77	158.587	-8.637	3.492	1.00	0.00
ATOM	1093	1HG	LYS	A	77	160.787	-7.268	5.015	1.00	0.00

ATOM 1094	2HG	LYS A	77 160.749	-9.005	4.710 1.00 0.00
ATOM 1095	1HD	LYS A	77 160.993	-8.729	2.407 1.00 0.00
ATOM 1096	2HD	LYS A	77 160.480	-7.041	2.462 1.00 0.00
ATOM 1097	1HE	LYS A	77 162.544	-6.298	2.975 1.00 0.00
ATOM 1098	2HE	LYS A	77 162.883	-7.667	4.034 1.00 0.00
ATOM 1099	1HZ	LYS A	77 164.058	-7.312	1.683 1.00 0.00
ATOM 1100	2HZ	LYS A	77 162.743	-8.255	1.192 1.00 0.00
ATOM 1101	3HZ	LYS A	77 163.809	-8.840	2.368 1.00 0.00
ATOM 1102	N .	LYS A	78 156.273	-5.453	4.593 1.00 0.00
ATOM 1103	CA	LYS A	78 154.833	-5.336	4.796 1.00 0.00
ATOM 1104	С	LYS A	78 154.337	-3.953	4.387 1.00 0.00
ATOM 1105	0	LYS A	78 153.462	-3.379	5.035 1.00 0.00
ATOM 1106	CB	LYS A	78 154.482	-5.606	6.260 1.00 0.00
ATOM 1107	CG	LYS A	78 154.975	-6.951	6.768 1.00 0.00
ATOM 1108	CD	LYS A	78 154.548	-7.196	8.206 1.00 0.00
ATOM 1109	CE	LYS A	78 153.329	-8.101	8.279 1.00 0.00
ATOM 1110	NZ	LYS A	78 152.528	-7.854	9.510 1.00 0.00
ATOM 1111	Н	LYS A	78 156.838	-4.661	4.705 1.00 0.00
ATOM 1112	HA.	LYS A	78 154.350	-6.076	4.177 1.00 0.00
ATOM 1113	1HB	LYS A	78 154.920	-4.831	6.873 1.00 0.00
ATOM 1114	2HB	LYS A	78 153.408	-5.575	6.372 1.00 0.00
ATOM 1115	1HG	LYS A	78 154.567	-7.732	6.143 1.00 0.00
ATOM 1116	S 2HG	LYS A	78 156.054	-6.971	6.712 1.00 0.00
ATOM 1117	7 1HD	LYS A	78 155.363	-7.662	8.738 1.00 0.00
ATOM 1118	3 2HD	LYS A	78 154.310	-6.247	8.667 1.00 0.00
ATOM 1119) 1HE	LYS A	78 152.709	-7.919	7.414 1.00 0.00
ATOM 1120) 2HE	LYS A	78 153.660	-9.129	8.274 1.00 0.00
ATOM 112	L 1HZ	LYS A	78 151.535	-8.120	9.347 1.00 0.00
ATOM 1122	2 2HZ	LYS A	78 152.568	-6.849	9.768 1.00 0.00

ATOM	1123	3HZ	LYS A	78	152.903	-8.419	10.299	1.00	0.00
ATOM	1124	N	ALA A	79	154.903	-3.423	3.306	1.00	0.00
ATOM	1125	CA	ALA A	79	154.517	-2.107	2.811	1.00	0.00
ATOM	1126	С	ALA A	79	154.453	-2.093	1.287	1.00	0.00
ATOM	1127	0	ALA A	79	155.479	-1.991	0.614	1.00	0.00
ATOM	1128	СВ	ALA A	79	155.491	-1.050	3.310	1.00	0.00
ATOM	1129	H	ALA A	79	155.595	-3.929	2.832	1.00	0.00
ATOM	1130	HA	ALA A	79	153.538	-1.876	3.204	1.00	0.00
ATOM	1131	1HB	ALA A	79	154.952	-0.139	3.526	1.00	0.00
ATOM	1132	2HB	ALA A	79	156.234	-0.858	2.551	1.00	0.00
ATOM	1133	ЗНВ	ALA A	79	155.976	-1.402	4.208	1.00	0.00
ATOM	1134	N	LEU A	80	153.242	-2.196	0.749	1.00	0.00
ATOM	1135	CA	LEU A	80	153.045	-2.195	-0.696	1.00	0.00
ATOM	1136	C	LEU A	80	152.259	-0.964	-1.137	1.00	0.00
ATOM	1137	0	LEU A	80	151.060	-0.857	-0.880	1.00	0.00
ATOM	1138	CB	LEU A	80	152.312	-3.465	-1.132	1.00	0.00
ATOM	1139	CG	LEU A	80	152.003	-3.553	-2.627	1.00	0.00
ATOM	1140	CD1	LEU A	80	153.212	-4.072	-3.391	1.00	0.00
ATOM	1141	CD2	LEU A	80	150.795	-4.445	-2.870	1.00	0.00
ATOM	1142	Н	LEU A	80	152.462	-2.275	1.338	1.00	0.00
ATOM	1143	HA	LEU A	80	154.018	-2.173	-1.164	1.00	0.00
ATOM	1144	1HB	LEU A	80	152.919	-4.317	-0.859	1.00	0.00
ATOM	1145	2HB	LEU A	80	151.379	-3.521	-0.592	1.00	0.00
ATOM	1146	HG	LEU A	80	151.773	-2.566	-3.000	1.00	0.00
ATOM	1147	1HD1	LEU A	80	154.113	-3.837	-2.843	1.00	0.00
ATOM	1148	2HD1	LEU A	80	153.251	-3.604	-4.364	1.00	0.00
ATOM	1149	3HD1	LEU A	80	153.131	-5.142	-3.509	1.00	0.00
ATOM	1150	1HD2	LEU A	80	149.892	-3.857	-2.792	1.00	0.00
ATOM	1151	2HD2	LEU A	80	150.775	-5.234	-2. 131	1.00	0.00

MOTA	1152	3HD2	LEU A	80	150.858	-4.877	-3.857	1.00	0.00
ATOM	1153	N	PHE A	81	152.943	-0.039	-1.802	1.00	0.00
ATOM	1154	CA	PHE A	81	152.309	1.184	-2.279	1.00	0.00
ATOM	1155	С	PHE A	81	151.493	0.917	-3.540	1.00	0.00
ATOM	1156	0	PHE A	81	151.877	0.102	-4.379	1.00	0.00
ATOM	1157	CB	PHE A	81	153.364	2.255	-2.559	1.00	0.00
ATOM	1158	CG	PHE A	81	154.090	2.718	-1.328	1.00	0.00
ATOM	1159	CD1	PHE A	81	155.218	2.048	-0.880	1.00	0.00
ATOM	1160	CD2	PHE A	81	153.645	3.822	-0.619	1.00	0.00
ATOM	1161	CE1	PHE A	81	155.888	2.471	0.252	1.00	0.00
ATOM	1162	CE2	PHE A	81	154.311	4.250	0.515	1.00	0.00
ATOM	1163	CZ	PHE A	81	155.435	3.573	0.950	1.00	0.00
ATOM	1164	Н	PHE A	81	153.896	-0.182	-1.977	1.00	0.00
ATOM	1165	HA	PHE A	81	151.646	1.538	-1.505	1.00	0.00
ATOM	1166	1HB	PHE A	81	154.096	1.859	-3.247	1.00	0.00
ATOM	1167	2HB	PHE A	81	152.885	3.115	-3.006	1.00	0.00
ATOM	1168	HD1	PHE A	81	155.574	1.187	-1.426	1.00	0.00
ATOM	1169	HD2	PHE A	81	152.767	4.351	-0.958	1.00	0.00
ATOM	1170	HE1	PHE A	81	156.766	1.940	0.591	1.00	0.00
ATOM	1171	HE2	PHE A	81	153.954	5.111	1.059	1.00	0.00
ATOM	1172	HZ	PHE A	81	155.957	3.906	1.835	1.00	0.00
ATOM	1173	N	VAL A	82	150.364	1.608	-3.667	1.00	0.00
MOTA	1174	CA	VAL A	82	149.494	1.444	-4.825	1.00	0.00
ATOM	1175	С	VAL A	82	148.612	2.671	-5.027	1.00	0.00
ATOM	1176	0	VAL A	82	148.497	3.519	-4.142	1.00	0.00
ATOM	1177	CB	VAL A	82	148.598	0.200	-4.684	1.00	0.00
ATOM	1178	CG1	VAL A	82	149.428	-1.071	-4.779	1.00	0.00
ATOM	1179	CG2	VAL A	82	147.827	0.243	-3.373	1.00	0.00
ATOM	1180	Н	VAL A	82	150.111	2.242	-2.965	1.00	0.00

ATOM	1181	HA	VAL	A	82	150.120	1.314	-5.697	1.00	0.00
ATOM	1182	HB	VAL	A	82	147.885	0.200	-5.496	1.00	0.00
ATOM	1183	1HG1	VAL	A	82	150.036	-1.038	-5.671	1.00	0.00
ATOM	1184	2HG1	VAL	A	82	148.771	-1.927	-4.824	1.00	0.00
ATOM	1185	3HG1	VAL	A	82	150.066	-1.150	-3.912	1.00	0.00
ATOM	1186	1HG2	VAL	A	82	148.388	0.808	-2.643	1.00	0.00
ATOM	1187	2HG2	VAL	A	82	147.675	-0.762	-3.011	1.00	0.00
ATOM	1188	3HG2	VAL	A	82	146.869	0.716	-3.534	1.00	0.00
ATOM	1189	N	LYS	A	83	147.991	2.760	-6.199	1.00	0.00
ATOM	1190	CA	LYS	A	83	147.118	3.884	-6.518	1.00	0.00
ATOM	1191	С	LYS	A	83	145.833	3.826	-5.700	1.00	0.00
ATOM	1192	0	LYS	A	83	145.108	2.831	-5.732	1.00	0.00
ATOM	1193	CB	LYS	A	83	146.786	3.890	-8.012	1.00	0.00
ATOM	1194	CG	LYS	A	83	148.004	4.058	-8.904	1.00	0.00
ATOM	1195	CD	LYS	A	83	147.623	4.036	-10.376	1.00	0.00
ATOM	1196	CE	LYS	A _.	83	148.408	5.068	-11.171	1.00	0.00
ATOM	1197	NZ	LYS	A	83	148.692	4.605	-12.557	1.00	0.00
ATOM	1198	H	LYS	A	83	148. 122	2.052	-6.864	1.00	0.00
ATOM	1199	HA	LYS	A	83	147.645	4.793	-6.272	1.00	0.00
ATOM	1200	1HB	LYS	A	83	146.305	2.957	-8.265	1.00	0.00
ATOM	1201	2HB	LYS	A	83	146.104	4.703	-8.214	1.00	0.00
ATOM	1202	1HG	LYS	A	83	148.476	5.002	-8.680	1.00	0.00
ATOM	1203	2HG	LYS	A	83	148.695	3.251	-8.709	1.00	0.00
ATOM	1204	1HD	LYS	A	83	147.829	3.055	-10.778	1.00	0.00
ATOM	1205	2HD	LYS	A	83	146.568	4.250	-10.469	1.00	0.00
ATOM	1206	1HE	LYS	A	83	147.833	5.980	-11.217	1.00	0.00
ATOM	1207	2HE	LYS	A	83	149.343	5.258	-10.664	1.00	0.00
ATOM	1208	1HZ	LYS	A	83	147.835	4. 193	-12.979	1.00	0.00
MOTA	1209	2HZ	LYS	A	83	149.440	3.882	-12.546	1.00	0.00

ATOM	1210	3HZ	LYS A	83	149.006	5.404	-13. 143	1.00	0.00
ATOM	1211	N	LEU A	84	145.559	4.900	-4.967	1.00	0.00
ATOM	1212	CA	LEU A	84	144.362	4.977	-4.138	1.00	0.00
ATOM	1213	C	LEU A	84	143.103	4.813	-4.985	1.00	0.00
ATOM	1214	0	LEU A	84	142.124	4.210	-4.547	1.00	0.00
ATOM	1215	CB	LEU A	84	144.324	6.314	-3.395	1.00	0.00
ATOM	1216	CG	LEU A	84	143.055	6.569	-2.580	1.00	0.00
MOTA	1217	CD1	LEU A	84	143.085	5.777	-1.283	1.00	0.00
ATOM	1218	CD2	LEU A	84	142.896	8.055	-2.295	1.00	0.00
ATOM	1219	H	LEU A	84	146.177	5.660	-4.986	1.00	0.00
ATOM	1220	HA	LEU A	84	144.405	4.175	-3.419	1.00	0.00
ATOM	1221	1HB	LEU A	84	145.170	6.352	-2.725	1.00	0.00
ATOM	1222	2HB	LEU A	84	144.426	7.107	-4.120	1.00	0.00
ATOM	1223	HG	LEU A	84	142.197	6.243	-3.150	1.00	0.00
ATOM	1224	1HD1	LEU A	84	142.799	4.753	-1.479	1.00	0.00
ATOM	1225	2HD1	LEU A	84	142.394	6.214	-0.577	1.00	0.00
ATOM	1226	3HD1	LEU A	84	144.083	5.798	-0.870	1.00	0.00
ATOM	1227	1HD2	LEU A	84	143.784	8.425	-1.805	1.00	0.00
ATOM	1228	2HD2	LEU A	84	142.040	8.209	-1.654	1.00	0.00
ATOM	1229	3HD2	LEU A	84	142.750	8.586	-3.224	1.00	0.00
ATOM	1230	N	LYS A	85	143.138	5.352	-6.199	1.00	0.00
ATOM	1231	CA	LYS A	85	141.999	5.264	-7.106	1.00	0.00
ATOM	1232	С	LYS A	85	141.717	3.814	-7.488	1.00	0.00
ATOM	1233	0	LYS A	85	140.589	3.461	-7.832	1.00	0.00
ATOM	1234	CB	LYS A	85	142.259	6.093	-8.365	1.00	0.00
ATOM	1235	CG	LYS A	85	143.453	5.615	-9.173	1.00	0.00
ATOM	1236	CD	LYS A	85	143.781	6.575	-10.306	1.00	0.00
ATOM	1237	ĊE	LYS A	85	144.955	7.474	-9.953	1.00	0.00
ATOM	1238	NZ	LYS A	85	144.679	8.301	-8.746	1.00	0.00

ATOM	1239	H	LYS A	85 143.948	5.819	-6.491 1	.00 0.00
ATOM	1240	HA	LYS A	85 141.137	5.662	-6.595 1	.00 0.00
ATOM	1241	1HB	LYS A	85 141.384	6.050	-8.997 1	.00 0.00
ATOM	1242	2HB	LYS A	85 142.433	7.118	-8.077 1	.00 0.00
ATOM	1243	1HG	LYS A	85 144.310	5.538	-8.521 1	.00 0.00
ATOM	1244	2HG	LYS A	85 143.229	4.643	-9.590 1	1.00 0.00
ATOM	1245	1HD	LYS A	85 144.031	6.004	-11.188	1.00 0.00
ATOM	1246	2HD	LYS A	85 142.914	7.189	-10.506 I	1.00 0.00
ATOM	1247	1HE	LYS A	85 145.821	6.858	-9.766 I	1.00 0.00
ATOM	1248	2HE	LYS A	85 145.154	8.129	-10.789	1.00 0.00
ATOM	1249	1HZ	LYS A	85 145.546	8.784	-8.437	1.00 0.00
ATOM	1250	2HZ	LYS A	85 144.337	7.698	-7.970	1.00 0.00
ATOM	1251	3HZ	LYS A	85 143.953	9.015	-8.959	1.00 0.00
ATOM	1252	N	SER A	86 142.750	2.976	-7.427	1.00 0.00
ATOM	1253	CA	SER A	86 142.608	1.565	-7.767	1.00 0.00
ATOM	1254	С	SER A	86 142.494	0.710	-6.509	1.00 0.00
ATOM	1255	0	SER A	86 142.923	-0.444	-6.490	1.00 0.00
ATOM	1256	CB	SER A	86 143.800	1.100	-8.607	1.00 0.00
ATOM	1257	OG	SER A	86 143.657	1.500	-9.959	1.00 0.00
ATOM	1258	Н	SER A	86 143.625	3.314	-7.147	1.00 0.00
ATOM	1259	HA	SER A	86 141.704	1.453	-8.347	1.00 0.00
ATOM	1260	1HB	SER A	86 144.707	1.531	-8.211	1.00 0.00
ATOM	1261	2HB	SER A	86 143.866	0.023	-8.568	1.00 0.00
ATOM	1262	HG	SER A	86 143.468	2.440	-9.997	1.00 0.00
ATOM	1 1263	N	CYS A	87 141.913	1.284	-5.460	1.00 0.00
ATON	1 1264	CA	CYS A	87 141.742	0.575	-4.198	1.00 0.00
ATON	1265	С	CYS A	87 140.267	0.304	-3.923	1.00 0.00
ATON	A 1266	0	CYS A	87 139.397	1.064	-4.346	1.00 0.00
ATON	M 1267	CB	CYS A	87 142.347	1.382	-3.048	1.00 0.00

ATOM	1268	SG	CYS A	87	144.153	1.474	-3.081 1.00 0.00
ATOM	1269	H	CYS A	87	141.592	2.207	-5.537 1.00 0.00
ATOM	1270	HA	CYS A	87	142.262	-0.369	-4.274 1.00 0.00
ATOM	1271	1HB	CYS A	87	141.968	2.393	-3.089 1.00 0.00
ATOM	1272	2HB	CYS A	87	142.057	0.933	-2.110 1.00 0.00
ATOM	1273	HG	CYS A	87	144.471	1.371	-2.181 1.00 0.00
ATOM	1274	N	ARG A	88	139.992	-0.786	-3.212 1.00 0.00
ATOM	1275	CA	ARG A	88	138.620	-1.156	-2.882 1.00 0.00
ATOM	1276	C .	ARG A	88	138.440	-1.289	-1.372 1.00 0.00
ATOM	1277	0	ARG A	88	139.327	-1.781	-0.674 1.00 0.00
ATOM	1278	CB	ARG A	88	138.247	-2.472	-3.569 1.00 0.00
ATOM	1279	CG	ARG A	88	137.641	-2.286	-4.950 1.00 0.00
ATOM	1280	CD	ARG A	88	136. 123	-2.374	-4.909 1.00 0.00
ATOM	1281	NE	ARG A	88	135.530	-2.222	-6.236 1.00 0.00
ATOM	1282	CZ	ARG A	88	135.476	-1.068	-6.897 1.00 0.00
ATOM	1283	NH1	ARG A	88	135.977	0.037	-6.359 1.00 0.00
ATOM	1284	NH2	ARG A	88	134.919	-1.019	-8.099 1.00 0.00
ATOM	1285	Н	ARG A	88	140.729	-1.354	-2.903 1.00 0.00
ATOM	1286	HA	ARG A	88	137.971	-0.374	-3.246 1.00 0.00
ATOM	1287	1HB	ARG A	88	139.136	-3.077	-3.669 1.00 0.00
ATOM	1288	2HB	ARG A	88	137.533	-2.997	-2.953 1.00 0.00
ATOM	1289	1HG	ARG A	88	137.924	-1.316	-5.330 1.00 0.00
ATOM	1290	2HG	ARG A	88	138.019	-3.056	-5.606 1.00 0.00
ATOM	1291	1HD	ARG A	88	135.842	-3.335	-4.507 1.00 0.00
ATOM	1292	2HD	ARG A	88	135.749	-1.591	-4.265 1.00 0.00
ATOM	1293	HE	ARG A	88	135.152	-3.023	-6.656 1.00 0.00
ATOM	1294	1HH1	ARG A	88	136.399	0.007	-5.453 1.00 0.00
ATOM	1295	2HH1	ARG A	88	3 135.934	0.901	-6.861 1.00 0.00
ATOM	1296	1HH2	ARG A	88	3 134.539	-1.848	-8.509 1.00 0.00

ATOM	1297	2HH2	ARG .	A	88	134.878	-0.152	-8.596	1.00	0.00
ATOM		N	PRO .	A	89	137.282	-0.854	-0.841	1.00	0.00
ATOM	1299	CA	PRO .	A	89	136.995	-0.931	0.595	1.00	0.00
ATOM	1300	C	PRO .	A	89	137. 153	-2.347		1.00	0.00
ATOM	1301	0	PRO .	A	89	136.565	-3.293	0.616	1.00	0.00
ATOM	1302	СВ	PRO .	A	89	135.534	-0.482	0.696	1.00	0.00
ATOM	1303	CG	PRO .	A	89	135.303	0.344	-0.521	1.00	0.00
ATOM	1304	CD	PRO .	A	89	136.166	-0.254	-1.596	1.00	0.00
ATOM	1305	HA	PRO	A	89	137.622	-0.257	1.160	1.00	0.00
ATOM	1306	1HB	PRO	A	89	134.889	-1.349	0.715	1.00	0.00
ATOM	1307	2НВ	PRO	A	89	135.394	0.097	1.597	1.00	0.00
ATOM	1308	1HG	PRO	A	89	134.262	0.297	-0.805	1.00	0.00
ATOM	1309	2HG	PRO	A	89	135.596	1.367	-0.332	1.00	0.00
ATOM	1310	1HD	PRO	A	89	135.619	-1.009	-2.142	1.00	0.00
ATOM	1311	2HD	PRO	A	89	136.522	0.515	-2.265	1.00	0.00
ATOM	1312	N	ASP	A	90	137.949	-2.484	2.196	1.00	0.00
ATOM	1313	CA	ASP	A	90	138.183	-3.784	2.811	1.00	0.00
ATOM	1314	С	ASP	A	90	137.359	-3.937	4.086	1.00	0.00
ATOM	1315	0	ASP	Α	90	137.749	-3.455	5.149	1.00	0.00
ATOM	1316	CB	ASP	A	90	139.668	-3.964	3.127	1.00	0.00
ATOM	1317	CG	ASP	A	90	140.101	-5.416	3.066	1.00	0.00
ATOM	1318	OD1	ASP	A	90	139.932	-6.041	1.997	1.00	0.00
ATOM	1319	OD2	ASP	A	90	140.609	-5.928	4.085	1.00	0.00
ATOM	1320	Н	ASP	A	90	138.389	-1.691	2.569	1.00	0.00
ATOM	1321	HA	ASP	A	90	137.878	-4.544	2.107	1.00	0.00
ATOM	1322	1HB	ASP	A	90	140.253	-3.403	2.413	1.00	0.00
ATOM	1323	2HB	ASP	A	90	139.866	-3.589	4.120	1.00	0.00
ATOM	1324	N	SER	A	91	136.220	-4.611	3.972	1.00	0.00
ATOM	1325	CA	SER	A	91	135.343	-4.826	5.118	1.00	0.00

ATOM	1326	С	SER A	91	135.563	-6.209	5.723	1.00	0.00
ATOM	1327	0	SER A	91	134.646	-6.803	6.289	1.00	0.00
ATOM	1328	CB	SER A	91	133.879	-4.667	4.702	1.00	0.00
ATOM	1329	OG	SER A	91	133.091	-4.194	5.781	1.00	0.00
ATOM	1330	Н	SER A	91	135.962	-4.972	3.098	1.00	0.00
ATOM	1331	HA	SER A	91	135.579	-4.079	5.859	1.00	0.00
ATOM	1332	1HB	SER A	91	133.812	-3.962	3.887	1.00	0.00
ATOM	1333	2HB	SER A	91	133.492	-5.624	4.383	1.00	0.00
ATOM	1334	HG	SER A	91	132.300	-4.732	5.861	1.00	0.00
ATOM	1335	N	ARG A	92	136.787	-6.715	5.600	1.00	0.00
ATOM	1336	CA	ARG A	92	137.126	-8.028	6.137	1.00	0.00
ATOM	1337	C	ARG A	92	137.058	-8.025	7.660	1.00	0.00
ATOM	1338	0	ARG A	92	136.757	-9.045	8.281	1.00	0.00
ATOM	1339	CB	ARG A	92	138.525	-8.444	5.677	1.00	0.00
ATOM	1340	CG	ARG A	92	138.648	-8.601	4.171	1.00	0.00
ATOM	1341	CD	ARG A	92	137.984	-9.879	3.686	1.00	0.00
ATOM	1342	NE	ARG A	92	136.678	-9.622	3.082	1.00	0.00
ATOM	1343	CZ	ARG A	92	136.048	-10.481	2.285	1.00	0.00
ATOM	1344	NH1	ARG A	92	136.599	-11.654	1.994	1.00	0.00
ATOM	1345	NH2	ARG A	92	134.864	-10.169	1.777	1.00	0.00
ATOM	1346	H	ARG A	92	137.477	-6.195	5.139	1.00	0.00
ATOM	1347	HA	ARG A	92	136.406	-8.738	5.757	1.00	0.00
ATOM	1348	1HB	ARG A	92	139.234	-7.696	5.999	1.00	0.00
ATOM	1349	2HB	ARG A	92	138.776	-9.388	6.138	1.00	0.00
ATOM	1350	1HG	ARG A	92	138. 176	-7.758	3.690	1.00	0.00
ATOM	1351	2HG	ARG A	92	139.696	-8.627	3.906	1.00	0.00
ATOM	1352	1HD	ARG A	92	138.623	-10.346	2.952	1.00	0.00
ATOM	1353	2HD	ARG A	92	137.856	-10.545	4.527	1.00	0.00
ATOM	1354	HE	ARG A	92	136.248	-8.764	3. 281	1.00	0.00

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ATOM :	1355	1HH1				-11.896			
ATOM :	1356	2HH1	ARG A	92	136. 120	-12.295	1.395	1.00	0.00
ATOM :	1357	1HH2	ARG A	92	134.444	-9.288	1.993	1.00	0.00
ATOM	1358	2HH2	ARG A	92	134.390	-10.815	1.177	1.00	0.00
ATOM	1359	N	PHE A	93	137.340	-6.872	8.258	1.00	0.00
ATOM	1360	CA	PHE A	93	137.310	-6.734	9.709	1.00	0.00
ATOM	1361	С	PHE A	93	136.350	-5.627	10.133	1.00	0.00
ATOM	1362	0	PHE A	93	136.554	-4.973	11.155	1.00	0.00
ATOM	1363	CB	PHE A	93	138.713	-6.439	10.243	1.00	0.00
ATOM	1364	CG	PHE A	93	139.735	-7.465	9.842	1.00	0.00
ATOM	1365	CD1	PHE A	93	140.148	-7.570	8.523	1.00	0.00
ATOM	1366	CD2	PHE A	93	140. 281	-8.323	10.782	1.00	0.00
ATOM	1367	CE1	PHE A	93	141.090	-8.512	8.151	1.00	0.00
ATOM	1368	CE2	PHE A	93	141.222	-9.267	10.416	1.00	0.00
ATOM	1369	CZ	PHE A	93	141.626	-9.361	9.099	1.00	0.00
ATOM	1370	H	PHE A	93	137.572	-6.093	7.709	1.00	0.00
ATOM	1371	HA	PHE A	93	136.966	-7.671	10.124	1.00	0.00
ATOM	1372	1HB	PHE A	93	139.039	-5.481	9.867	1.00	0.00
ATOM	1373	2HB	PHE A	93	138.680	-6.406	11.321	1.00	0.00
ATOM	1374	HD1	PHE A	93	3 139.731	-6.905	7.782	1.00	0.00
ATOM	1375	HD2	PHE A	93	3 139.965	-8.250	11.813	1.00	0.00
ATOM	1376	HE1	PHE A	93	3 141.403	8 -8.585	7.120	1.00	0.00
ATOM	1377	HE2	PHE A	93	3 141.639	-9.930	11.159	1.00	0.00
ATOM	1378	HZ	PHE A	93	3 142.36	-10.099	8.811	1.00	0.00
ATOM	1379	N	ALA A	94	135.303	3 -5.421	9.339	1.00	0.00
ATOM	1380	CA	ALA A	94	4 134.313	3 -4.393	9.632	1.00	0.00
ATOM	1381	С	ALA A	94	4 133.083	3 -4.992	10.307	1.00	0.00
ATOM	1382	0	ALA A	94	4 132.438	3 -5.889	9.763	1.00	0.00
ATOM	1383	CB	ALA A	94	4 133.918	3 -3.663	8.357	1.00	0.00

ATOM	1384	H	ALA A	94 135.195	-5.975	8.537 1.00 0.00
ATOM	1385	HA	ALA A	94 134.765	-3.677	10.302 1.00 0.00
ATOM	1386	1HB	ALA A	94 134.109	-2.606	8.472 1.00 0.00
ATOM	1387	2HB	ALA A	94 132.867	-3.819	8.161 1.00 0.00
ATOM	1388	3HB	ALA A	94 134.498	-4.044	7.530 1.00 0.00
ATOM	1389	N	SER A	95 132.763	-4.490	11.495 1.00 0.00
ATOM	1390	CA	SER A	95 131.610	-4.975	12.245 1.00 0.00
ATOM	1391	C	SER A	95 130.308	-4.529	11.587 1.00 0.00
ATOM	1392	0	SER A	95 129.946	-3.354	11.637 1.00 0.00
ATOM	1393	CB	SER A	95 131.664	-4.470	13.688 1.00 0.00
ATOM	1394	0G	SER A	95 131.564	-3.058	13.739 1.00 0.00
ATOM	1395	Н	SER A	95 133.315	-3.776	11.877 1.00 0.00
ATOM	1396	HA	SER A	95 131.648	-6.054	12.249 1.00 0.00
ATOM	1397	1HB	SER A	95 130.845	-4.897	14.247 1.00 0.00
ATOM	1398	2HB	SER A	95 132.600	-4.770	14.136 1.00 0.00
ATOM	1399	HG	SER A	95 132.373	-2.667	13.400 1.00 0.00
ATOM	1400	N	LEU A	96 129.608	-5.477	10.970 1.00 0.00
ATOM	1401	CA	LEU A	96 128.346	-5.182	10.302 1.00 0.00
ATOM	1402	С	LEU A	96 127.436	-6.404	10.293 1.00 0.00
ATOM	1403	0	LEU A	96 126.247	-6.309	10.601 1.00 0.00
ATOM	1404	CB	LEU A	96 128.601	-4.708	8.870 1.00 0.00
ATOM	1405	CG	LEU A	96 127.648	-3.623	8.366 1.00 0.00
ATOM	1406	CD1	LEU A	96 128.191	-2.242	8.694 1.00 0.00
ATOM	1407	CD2	LEU A	96 127.421	-3.768	6.869 1.00 0.00
ATOM	1408	H	LEU A	96 129.949	-6.395	10.965 1.00 0.00
ATOM	1409	HA	LEU A	96 127.859	-4.393	10.851 1.00 0.00
ATOM	1410	1HB	LEU A	96 129.611	-4.326	8.814 1.00 0.00
ATOM	1411	2HB	LEU A	96 128.520	-5.561	8.212 1.00 0.00
ATOM	1412	HG	LEU A	96 126.695	-3.733	8.862 1.00 0.00

ATOM	1413	1HD1	LEU	A	96	129.269	-2.255	8.634	1.00	0.00
ATOM	1414	2HD1	LEU	A	96	127.889	-1.963	9.694	1.00	0.00
ATOM	1415	3HD1	LEU	A	96	127.801	-1.524	7.987	1.00	0.00
ATOM	1416	1HD2	LEU	A	96	126.537	-4.363	6.695	1.00	0.00
ATOM	1417	2HD2	LEU	A	96	128. 275	-4.253	6.421	1.00	0.00
ATOM	1418	3HD2	LEU	A	96	127.289	-2.790	6.429	1.00	0.00
ATOM	1419	N	GLN	A	97	128.003	-7.548	9.937	1.00	0.00
ATOM	1420	CA	GLN	A	97	127.247	-8.794	9.885	1.00	0.00
ATOM	1421	С	GLN	A	97	126.955	-9.315	11.292	1.00	0.00
ATOM	1422	0	GLN	A	97	125.796	-9.457	11.681	1.00	0.00
ATOM	1423	CB	GLN	A	97	128.014	-9.848	9.081	1.00	0.00
ATOM	1424	CG	GLN	A	97	127.274	-10.326	7.843	1.00	0.00
ATOM	1425	CD	GLN	A	97	127.055	-9.219	6.831	1.00	0.00
ATOM	1426	OE1	GLN	A	97	127.736	-8. 193	6.859	1.00	0.00
ATOM	1427	NE2	GLN	A	97	126.102	-9.421	5.929	1.00	0.00
ATOM	1428	H	GLN	A	97	128.953	-7.555	9.703	1.00	0.00
ATOM	1429	HA	GLN	A	97	126.309	-8.591	9.390	1.00	0.00
ATOM	1430	1HB	GLN	Α	97	128.959	-9.428	8.770	1.00	0.00
ATOM	1431	2HB	GLN	A	97	128.202	-10.703	9.714	1.00	0.00
ATOM	1432	1HG	GLN	Α	97	127.849	-11.112	7.376	1.00	0.00
ATOM	1433	2HG	GLN	Α	97	126.311	-10.716	8.143	1.00	0.00
ATOM	1434	1HE2	GLN	Α	97	125.600	-10.262	5.967	1.00	0.00
ATOM	1435	2HE2	GLN	Α	97	125.939	-8.721	5.262	1.00	0.00
ATOM	1436	N	PRO) A	98	128.007	-9.608	12.075	1.00	0.00
ATOM	1437	CA	PRO) A	98	127.855	-10.116	13.442	1.00	0.00
ATOM	1438	С	PRO) A	98	127.388	-9.036	14.412	1.00	0.00
ATOM	1439	0	PRO) A	98	127.027	-7.933	14.001	1.00	0.00
ATOM	1440	СВ	PRO) A	98	129.266	-10.584	13.802	1.00	0.00
ATOM	1441	CG	PRO) A	98	3 130.167	-9.736	12.973	1.00	0.00

ATOM	1442	CD	PRO A	. 9	98	129.426	-9.470	11.691	1.00	0.00
ATOM	1443	HA	PRO A	4	98	127.174	-10.952	13.480	1.00	0.00
ATOM	1444	1HB	PRO A	1 9	98	129.439	-10.434	14.858	1.00	0.00
ATOM	1445	2HB	PRO A	4	98	129.375	-11.630	13.558	1.00	0.00
ATOM	1446	1HG	PRO A	1	98	130.372	-8.809	13.488	1.00	0.00
ATOM	1447	2HG	PRO A	!	98	131.086	-10.266	12.772	1.00	0.00
ATOM	1448	1HD	PRO A	A !	98	129.634	-8.470	11.337	1.00	0.00
ATOM	1449	2HD	PRO A	A :	98	129.695	-10.199	10.941	1.00	0.00
ATOM	1450	N .	SER A	A :	99	127.397	-9.361	15.700	1.00	0.00
ATOM	1451	CA	SER A	A !	99	126.974	-8.420	16.730	1.00	0.00
ATOM	1452	С	SER A	A :	99	128.013	-8.325	17.842	1.00	0.00
ATOM	1453	0	SER A	A	99	127.894	-8.984	18.875	1.00	0.00
ATOM	1454	CB	SER A	A	99	125.624	-8.841	17.313	1.00	0.00
ATOM	1455	OG	SER A	A	99	125.449	-10.245	17.232	1.00	0.00
ATOM	1456	H	SER A	A	99	127.696	-10.257	15.965	1.00	0.00
ATOM	1457	HA	SER .	A	99	126.869	-7.449	16.269	1.00	0.00
ATOM	1458	1HB	SER .	A	99	125.573	-8.545	18.351	1.00	0.00
ATOM	1459	2HB	SER .	A	99	124.830	-8.359	16.762	1.00	0.00
ATOM	1460	HG	SER .	A	99	125.229	-10.489	16.329	1.00	0.00
ATOM	1461	N	GLY	A 1	.00	129.034	-7.502	17.623	1.00	0.00
ATOM	1462	CA	GLY	A 1	.00	130.080	-7.338	18.614	1.00	0.00
ATOM	1463	С	GLY	A 1	.00	129.626	-6.514	19.806	1.00	0.00
ATOM	1464	0	GLY	A 1	.00	128.689	-5.723	19.694	1.00	0.00
ATOM	1465	Н	GLY	A 1	.00	129.076	-7.003	16.780	1.00	0.00
ATOM	1466	1HA	GLY	A 1	.00	130.389	-8.312	18.962	1.00	0.00
ATOM	1467	2HA	GLY	A 1	00	130.925	-6.847	18.153	1.00	0.00
ATOM	1468	N	PRO	A 1	01	130.277	-6.678	20.969	1.00	0.00
ATOM	1469	CA	PRO	A]	01	129.924	-5.935	22.183	1.00	0.00
ATOM	1470	С	PRO	A J	01	130.281	-4.456	22.081	1.00	0.00

ATOM	1471	0	PRO A 10	130.835	-4.008	21.078	1.00	0.00
ATOM	1472	CB	PRO A 10	130.760	-6.613	23.272	1.00	0.00
ATOM	1473	CG	PRO A 10	01 131.923	-7.196	22.548	1.00	0.00
ATOM	1474	CD	PRO A 10	01 131.408	-7.600	21.194	1.00	0.00
ATOM	1475	HA	PRO A 10	01 128.874	-6.036	22.418	1.00	0.00
ATOM	1476	1HB	PRO A 10	01 131.075	-5.877	23.998	1.00	0.00
ATOM	1477	2HB	PRO A 10	01 130.173	-7.379	23.757	1.00	0.00
ATOM	1478	1HG	PRO A 10	01 132.702	-6.456	22.446	1.00	0.00
ATOM	1479	2HG	PRO A 1	01 132.292	-8.060	23.080	1.00	0.00
ATOM	1480	1HD	PRO A 1	01 132.171	-7.462	20.442	1.00	0.00
ATOM	1481	2HD	PRO A 1	01 131.071	-8.625	21.207	1.00	0.00
ATOM	1482	N	SER A 1	02 129.959	-3.702	23.127	1.00	0.00
ATOM	1483	CA	SER A 1	02 130.245	-2.272	23.156	1.00	0.00
ATOM	1484	С	SER A 1	02 131.024	-1.897	24.413	1.00	0.00
ATOM	1485	0	SER A 1	02 132.035	-1.200	24.344	1.00	0.00
ATOM	1486	CB	SER A 1	02 128.945	-1.469	23.089	1.00	0.00
ATOM	1487	OG	SER A 1	02 127.980	-2.124	22.284	1.00	0.00
ATOM	1488	H	SER A 1	02 129.518	-4.116	23.899	1.00	0.00
ATOM	1489	HA	SER A 1	02 130.847	-2.037	22.291	1.00	0.00
ATOM	1490	1HB	SER A 1	02 128.544	-1.353	24.086	1.00	0.00
ATOM	1491	2HB	SER A 1	02 129.146	-0.495	22.668	1.00	0.00
ATOM	1492	HG	SER A 1	.02 128.380	-2.382	21.450	1.00	0.00
ATOM	1493	N	SER A 1	.03 130.545	-2.367	25.561	1.00	0.00
ATOM	1494	CA	SER A 1	03 131.197	-2.082	26.834	1.00	0.00
ATOM	1495	С	SER A 1	130.874	-3.160	27.863	1.00	0.00
ATOM	1496	0	SER A 1	103 131.771	-3.823	28.384	1.00	0.00
ATOM	1497	CB	SER A 1	103 130.760	-0.712	27.358	1.00	0.00
ATOM	1498	OG	SER A 1	103 131.620	0.311	26.891	1.00	0.00
ATOM	1499	H	SER A	103 129.734	-2.918	25.551	1.00	0.00

ATOM	1500	HA	SER A	103	132.262	-2.069	26.665	1.00	0.00
ATOM	1501	1HB	SER A	103	129.756	-0.503	27.021	1.00	0.00
MOTA	1502	2HB	SER A	103	130.783	-0.720	28.438	1.00	0.00
ATOM	1503	HG	SER A	103	132.396	0.360	27.455	1.00	0.00
ATOM	1504	N	GLY A	104	129.588	-3.329	28.153	1.00	0.00
ATOM	1505	CA	GLY A	104	129.170	-4.328	29.119	1.00	0.00
ATOM	1506	C	GLY A	104	127.832	-4.001	29.751	1.00	0.00
ATOM	1507	0	GLY A	104	127.823	-3.345	30.815	1.00	0.00
ATOM	1508	OXT	GLY A	104	126.794	-4.397	29.183	1.00	0.00
ATOM	1509	H	GLY A	104	128.917	-2.771	27.707	1.00	0.00
ATOM	1510	1HA	GLY A	104	129.097	-5.284	28.622	1.00	0.00
ATOM	1511	2HA	GLY A	104	129.917	-4.395	29.897	1.00	0.00
TER	1512		GLY A	104		•		•	
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ATOM	1	N	GLY A	1 135.862	21.326	-5.428 1.00 0.00
ATOM	2	CA	GLY A	1 136.784	22.453	-5.740 1.00 0.00
ATOM	3	С	GLY A	1 136.436	23.144	-7.044 1.00 0.00
ATOM	4	0	GLY A	1 135.778	24.184	-7.046 1.00 0.00
ATOM	5	1H	GLY A	1 134.965	21.447	-5.941 1.00 0.00
ATOM	6	2H	GLY A	1 135.664	21. 298	-4.408 1.00 0.00
ATOM	7	ЗН	GLY A	1 136.294	20.423	-5.712 1.00 0.00
ATOM	8	1HA	GLY A	1 136.736	23.175	-4.938 1.00 0.00
ATOM	9	2HA	GLY A	1 137.793	22.071	-5.805 1.00 0.00
ATOM	10	N	SER A	2 136.880	22.565	-8.154 1.00 0.00
ATOM	11	CA	SER A	2 136.611	23. 132	-9.471 1.00 0.00
ATOM	12	С	SER A	2 135.133	23.008	-9.825 1.00 0.00

ATOM	13	0	SER A	2 134.622	21.906	-10.024	1.00	0.00
ATOM	14	CB	SER A	2 137.463	22.432	-10.532	1.00	0.00
ATOM	15	OG	SER A	2 137.904	23.351	-11.518	1.00	0.00
ATOM	16	H	SER A	2 137.399	21.736	-8.087	1.00	0.00
ATOM	17	HA	SER A	2 136.876	24.178	-9.441	1.00	0.00
ATOM	18	1HB	SER A	2 138.326	21.986	-10.063	1.00	0.00
ATOM	19	2HB	SER A	2 136.876	21.663	-11.012	1.00	0.00
ATOM	20	HG	SER A	2 138.856	23.456	-11.454	1.00	0.00
ATOM	21	N	SER A	3 134.452	24.146	-9.904	1.00	0.00
ATOM	22	CA	SER A	3 133.032	24.166	-10.234	1.00	0.00
ATOM	23	С	SER A	3 132.822	24.039	-11.740	1.00	0.00
ATOM	24	0	SER A	3 133.076	24.979	-12.494	1.00	0.00
ATOM	25	СВ	SER A	3 132.389	25.455	-9.725	1.00	0.00
ATOM	26	0G	SER A	3 132.929	26.590	-10.375	1.00	0.00
ATOM	27	Н	SER A	3 134.919	5 24.993	-9.735	1.00	0.00
ATOM	28	HA	SER A	3 132.56	7 23.323	-9.747	1.00	0.00
ATOM	29	1HB	SER A	3 131.32	3 25.422	-9.915	1.00	0.00
ATOM	30	2HB	SER A	3 132.55	3 25.547	-8.663	1.00	0.00
ATOM	31	HG	SER A	3 132.62	6 26.615	-11.286	1.00	0.00
ATOM	32	N	GLY A	4 132.35	8 22.871	-12.172	1.00	0.00
ATOM	33	CA	GLY A	4 132.12	2 22.643	-13.585	1.00	0.00
ATOM	34	С	GLY A	4 132.09	5 21.169	-13.938	1.00	0.00
ATOM	35	0	GLY A	4 132.28	5 20.314	-13.073	1.00	0.00
ATOM	36	H	GLY A	4 132.17	4 22.159	-11.525	1.00	0.00
ATOM	37	1HA	GLY A	4 131.17	5 23.084	-13.857	1.00	0.00
ATOM	38	2HA	GLY A	4 132.90	6 23.123	-14.151	1.00	0.00
ATOM	39	N	SER A	5 131.85	7 20.871	-15.211	1.00	0.00
ATOM	40	CA	SER A	5 131.80	6 19.490	-15.676	1.00	0.00
ATOM	41	С	SER A	5 130.70	0 18.717	-14.963	1.00	0.00

ATOM	42	0	SER A	5	130.136	19.190	-13.977	1.00	0.00
ATOM	43	CB	SER A	5	133.153	18.803	-15.448	1.00	0.00
ATOM	44	OG	SER A	5	133.460	17.916	-16.510	1.00	0.00
ATOM	45	Н	SER A	5	131.714	21.598	-15.853	1.00	0.00
ATOM	46	HA	SER A	5	131.593	19.505	-16.734	1.00	0.00
ATOM	47	1HB	SER A	5	133.930	19.550	-15.385	1.00	0.00
ATOM	48	2HB	SER A	5	133.118	18.242	-14.526	1.00	0.00
ATOM	49	HG	SER A	5	133.809	18.414	-17.252	1.00	0.00
ATOM	50	N	SER A	. 6	130.397	17.527	-15.469	1.00	0.00
ATOM	51	CA	SER A	. 6	129.360	16.689	-14.880	1.00	0.00
ATOM	52	С	SER A	. 6	129.754	15.216	-14.934	1.00	0.00
ATOM	53	0	SER A	. 6	129.519	14.536	-15.934	1.00	0.00
ATOM	54	CB	SER A	. 6	128.031	16.900	-15.608	1.00	0.00
ATOM	55	0G	SER A	. 6	128.003	18.156	-16.264	1.00	0.00
ATOM	56	H	SER A	. 6	130.884	17.203	-16.256	1.00	0.00
ATOM	57	HA	SER A	. 6	129.244	16.980	-13.847	1.00	0.00
ATOM	58	1HB	SER A	. 6	127.897	16.121	-16.343	1.00	0.00
ATOM	59	2HB	SER A	6	127.222	16.863	-14.893	1.00	0.00
ATOM	60	HG	SER A	A 6	127.925	18.856	-15.612	1.00	0.00
ATOM	61	N	GLY A	1 7	130.352	14.729	-13.853	1.00	0.00
ATOM	62	CA	GLY A	A 7	130.769	13.340	-13.798	1.00	0.00
ATOM	63	С	GLY A	A 7	131.372	12.967	-12.458	1.00	0.00
ATOM	64	0	GLY A	A 7	132.589	12.825	-12.335	1.00	0.00
ATOM	65	Н	GLY .	A 7	130.513	15.317	-13.085	1.00	0.00
ATOM	66	1HA	GLY .	A 7	129.910	12.711	-13.981	1.00	0.00
ATOM	67	2HA	GLY .	A 7	131.502	13. 165	-14.571	1.00	0.00
ATOM	68	N	LEU .	A 8	3 130.520	12.809	-11.450	1.00	0.00
ATOM	69	CA	LEU .	A 8	3 130.974	12.451	-10.112	1.00	0.00
ATOM	70	С	LEU .	A 8	3 130.399	11.105	-9.684	1.00	0.00

ATOM	71	0	LEU	A	8	129.312	10.718	-10.114	1.00	0.00
ATOM	72	CB	LEU	A	8	130.573	13.532	-9.107	1.00	0.00
ATOM	73	CG	LEU	A	8	130.735	14.970	-9.605	1.00	0.00
ATOM	74	CD1	LEU	A	8	129.892	15.921	-8.770	1.00	0.00
MOTA	75	CD2	LEU	A	8	132.199	15.382	-9.570	1.00	0.00
ATOM	76	Н	LEU	A	8	129.561	12.936	-11.611	1.00	0.00
ATOM	77	HA	LEU	A	8	132.051	12.376	-10.136	1.00	0.00
ATOM	78	1HB	LEU	A	8	129.538	13.379	-8.841	1.00	0.00
ATOM	79	2HB	LEU	A	8	131.177	13.412	-8.221	1.00	0.00
ATOM	80	HG	LEU	A	8	130.392	15.031	-10.627	1.00	0.00
ATOM	81	1HD1	LEU	A	8	129.871	16.892	-9.242	1.00	0.00
ATOM	82	2HD1	LEU	A	8	130.321	16.010	-7.782	1.00	0.00
ATOM	83	3HD1	LEU	A	8	128.885	15.537	-8.692	1.00	0.00
ATOM	84	1HD2	LEU	A	8	132.656	15.168	-10.525	1.00	0.00
ATOM	85	2HD2	LEU	A	8	132.710	14.832	-8.795	1.00	0.00
ATOM	86	3HD2	LEU	A	8	132.270	16.441	-9.367	1.00	0.00
ATOM	87	N	ALA	A	9	131.134	10.395	-8.834	1.00	0.00
ATOM	88	CA	ALA	A	9	130.696	9.092	-8.348	1.00	0.00
ATOM	89	С	ALA	A	9	131.453	8.694	-7.086	1.00	0.00
ATOM	90	0	ALA	A	9	131.772	7.522	-6.886	1.00	0.00
ATOM	91	CB	ALA	A	9	130.878	8.038	-9.430	1.00	0.00
ATOM	92	H	ALA	A	9	131.991	10.756	-8.527	1.00	0.00
ATOM	93	HA	ALA	A	9	129.643	9.160	-8.118	1.00	0.00
ATOM	94	1HB	ALA	A	9	129.990	7.996	-10.045	1.00	0.00
ATOM	95	2HB	ALA	Α	9	131.042	7.075	-8.970	1.00	0.00
ATOM	96	ЗНВ	ALA	. A	9	131.728	8.295	-10.044	1.00	0.00
ATOM	97	N	MET	A	10	131.737	9.675	-6.238	1.00	0.00
ATOM	98	CA	MET	` A	10	132.457	9.427	-4.994	1.00	0.00
ATOM	99	С	MET	` A	10	132.314	10.608	-4.035	1.00	0.00

ATOM	100	0	MET A	10 133.29	1 11.291	-3.728	1.00	0.00
ATOM	101	CB	MET A	10 133.93	6 9.159	-5.280	1.00	0.00
ATOM	102	CG	MET A	10 134.60	2 10.248	- 6.106	1.00	0.00
ATOM	103	SD	MET A	10 136.40	0 10.200	-5.997	1.00	0.00
ATOM	104	CE	MET A	10 136.82	9 11.766	-6.751	1.00	0.00
ATOM	105	H	MET A	10 131.45	6 10.589	-6.452	1.00	0.00
ATOM	106	HA	MET A	10 132.02	5 8.550	-4.532	1.00	0.00
ATOM	107	1HB	MET A	10 134.46	3 9.076	-4.342	1.00	0.00
ATOM	108	2HB	MET A	10 134.02	3 8.226	-5.817	1.00	0.00
ATOM	109	1HG	MET A	10 134.31	5 10.123	-7.140	1.00	0.00
ATOM	110	2HG	MET A	10 134.25	9 11.209	-5.752	1.00	0.00
ATOM	111	1HE	MET A	10 137.17	9 11.598	-7.758	1.00	0.00
ATOM	112	2HE	MET A	10 137.60	6 12.244	-6.174	1.00	0.00
ATOM	113	3HE	MET A	10 135.95	7 12.404	-6.776	1.00	0.00
ATOM	114	N	PRO A	11 131.08	10.866	-3.550	1.00	0.00
ATOM	115	CA	PRO A	11 130.82	21 11.971	-2.624	1.00	0.00
ATOM	116	C	PRO A	11 131.64	11.867	-1.340	1.00	0.00
ATOM	117	0	PRO A	11 132.25	12.845	-0.908	1.00	0.00
ATOM	118	CB	PRO A	11 129.32	26 11.848	-2.315	1.00	0.00
ATOM	119	CG	PRO A	11 128.76	32 11.010	-3.412	1.00	0.00
ATOM	120	CD	PRO A	11 129.86	59 10.103	-3.867	1.00	0.00
ATOM	121	HA	PRO A	11 131.0	15 12.926	-3.092	1.00	0.00
ATOM	122	1HB	PRO A	11 129.19	2 11.379	-1.351	1.00	0.00
ATOM	123	2HB	PRO A	11 128.87	78 12.831	-2.304	1.00	0.00
ATOM	124	1HG	PRO A	11 127.93	36 10.427	-3.036	1.00	0.00
ATOM	125	2HG	PRO A	11 128.43	36 11.641	-4.225	1.00	0.00
ATOM	126	1HD	PRO A	11 129.8	43 9.171	-3.321	1.00	0.00
ATOM	127	2HD	PRO A	11 129.79	9.920	-4.929	1.00	0.00
ATOM	128	N	PRO A	12 131.6	77 10.677	-0.709	1.00	0.00

ATOM 129	CA	PRO A	12 132.438	10.469	0.528 1.00 0.00
ATOM 130	C	PRO A	12 133.904	10.857	0.370 1.00 0.00
ATOM 131	0	PRO A	12 134.589	11.145	1.352 1.00 0.00
ATOM 132	CB	PRO A	12 132.309	8.965	0.784 1.00 0.00
ATOM 133	CG	PRO A	12 131.074	8.556	0.061 1.00 0.00
ATOM 134	CD	PRO A	12 130.989	9.447	-1.146 1.00 0.00
ATOM 135	HA	PRO A	12 132.008	11.017	1.353 1.00 0.00
ATOM 136	1HB	PRO A	12 133.180	8.455	0.397 1.00 0.00
ATOM 137	2HB	PRO A	12 132.223	8.783	1.845 1.00 0.00
ATOM 138	1HG	PRO A	12 131.149	7.522	-0.240 1.00 0.00
ATOM 139	2HG	PRO A	12 130.212	8.703	0.695 1.00 0.00
ATOM 140	1HD	PRO A	12 131.501	8.996	-1.984 1.00 0.00
ATOM 141	2HD	PRO A	12 129.959	9.647	-1.395 1.00 0.00
ATOM 142	N	GLY A	13 134.378	10.862	-0.872 1.00 0.00
ATOM 143	CA	GLY A	13 135.761	11.216	-1.136 1.00 0.00
ATOM 144	С	GLY A	13 136.420	10.278	-2.127 1.00 0.00
ATOM 145	0	GLY A	13 136.953	10.716	-3.146 1.00 0.00
ATOM 146	Ή	GLY A	13 133.785	10.624	-1.616 1.00 0.00
ATOM 147	1HA	GLY A	13 135.794	12.220	-1.531 1.00 0.00
ATOM 148	2HA	GLY A	13 136.311	11.187	-0.208 1.00 0.00
ATOM 149	N	ASN A	14 136.385	8.983	-1.827 1.00 0.00
ATOM 150	CA	ASN A	14 136.984	7.980	-2.698 1.00 0.00
ATOM 151	С	ASN A	14 136.171	6.690	-2.683 1.00 0.00
ATOM 152	0	ASN A	14 136.322	5.861	-1.785 1.00 0.00
ATOM 153	CB	ASN A	14 138.424	7.694	-2.268 1.00 0.00
ATOM 154	CG	ASN A	14 139.315	8.916	-2.382 1.00 0.00
ATOM 155	0D1	ASN A	14 140.077	9.056	-3.338 1.00 0.00
ATOM 156	ND2	ASN A	14 139.222	9.809	-1.403 1.00 0.00
ATOM 157	Н	ASN A	14 135.946	8.697	-0.999 1.00 0.00

ATOM	158	HA	ASN	A	14	136.990	8.375	-3.704	1.00	0.00
ATOM	159	1HB	ASN	A	14	138.428	7.364	-1.240	1.00	0.00
ATOM	160	2HB	ASN	A	14	138.832	6.914	-2.894	1.00	0.00
ATOM	161	1HD2	ASN	A	14	138.593	9.631	-0.673	1.00	0.00
ATOM	162	2HD2	ASN	A	14	139.787	10.609	-1.451	1.00	0.00
ATOM	163	N	SER	A	15	135.310	6.527	-3.682	1.00	0.00
ATOM	164	CA	SER	A	15	134.470	5.338	-3.787	1.00	0.00
ATOM	165	С	SER	A	15	133.494	5.253	-2.616	1.00	0.00
ATOM	166	0	SER	A	15	132.317	5.585	-2.753	1.00	0.00
ATOM	167	CB	SER	A	15	135.336	4.076	-3.840	1.00	0.00
ATOM	168	OG	SER	A	15	135.576	3.678	-5.179	1.00	0.00
ATOM	169	H	SER	A	15	135.237	7.224	-4.368	1.00	0.00
ATOM	170	HA	SER	A	15	133.90	5.413	-4.704	1.00	0.00
ATOM	171	1HB	SER	A	15	136.284	4.272	-3.361	1.00	0.00
ATOM	172	2HB	SER	A	15	134.83	2 3.273	-3.323	1.00	0.00
ATOM	173	HG	SER	A	15	136.35	4.129	-5.512	1.00	0.00
ATOM	174	N	HIS	A	16	133.99	4.808	-1.466	1.00	0.00
ATOM	175	CA	HIS	A	16	133.16	4.680	-0.273	1.00	0.00
ATOM	176	С	HIS	A	16	133.75	5.463	0.892	1.00	0.00
ATOM	177	0	HIS	A	16	133.04	6.158	1.616	1.00	0.00
ATOM	178	CB	HIS	A	16	133.00	7 3.208	0.111	1.00	0.00
ATOM	179	CG	HIS	A	16	131.98	2.480	-0.703	1.00	0.00
ATOM	180	ND1	HIS	A	16	130.63	5 2.772	-0.652	1.00	0.00
ATOM	181	CD2	HIS	A	16	132.11	3 1.469	-1.593	1.00	0.00
ATOM	182	CE1	HIS	A	16	129.98	2 1.969	-1.475	1.00	0.00
ATOM	183	NE2	HIS	A	16	130.85	6 1.170	-2.059	1.00	0.00
ATOM	184	Н	HIS	A	16	134.93	6 4.559	-1.419	1.00	0.00
ATOM	185	HA	HIS	A	16	132.18	7 5.087	-0.502	1.00	0.00
ATOM	186	1HB	HIS	A	16	133.95	3 2.708	-0.024	1.00	0.00

ATOM 18	7 2HB	HIS A	16 132.715	3.143	1.149 1.00 0.00
ATOM 18	88 HD1	HIS A	16 130.219	3.462	-0.095 1.00 0.00
ATOM 18	39 HD2	HIS A	16 133.035	0.986	-1.884 1.00 0.00
ATOM 19	00 HE1	HIS A	16 128.915	1.969	-1.642 1.00 0.00
ATOM 19)1 HE2	HIS A	16 130.650	0.540	-2.779 1.00 0.00
ATOM 19)2 N	GLY A	17 135.070	5.345	1.066 1.00 0.00
ATOM 19	93 CA	GLY A	17 135.741	6.047	2.144 1.00 0.00
ATOM 19	94 C	GLY A	17 137.087	5.436	2.485 1.00 0.00
ATOM 19	95 0	GLY A	17 137.242	4.806	3.530 1.00 0.00
ATOM 19	96 H	GLY A	17 135.587	4.777	0.457 1.00 0.00
ATOM 19	97 1HA	GLY A	17 135.889	7.076	1.853 1.00 0.00
ATOM 19	98 2HA	GLY A	17 135.113	6.019	3.022 1.00 0.00
ATOM 19	99 N	LEU A	18 138.060	5.623	1.600 1.00 0.00
ATOM 20	00 CA	LEU A	18 139.399	5.086	1.811 1.00 0.00
ATOM 20	01 C	LEU A	18 140.344	6.167	2.328 1.00 0.00
ATOM 20	02 0	LEU A	18 140.685	7.103	1.606 1.00 0.00
ATOM 20	03 CB	LEU A	18 139.946	4.493	0.511 1.00 0.00
ATOM 2	04 CG	LEU A	18 139.060	3.428	-0.138 1.00 0.00
ATOM 2	05 CD1	LEU A	18 139.482	3.188	-1.579 1.00 0.00
ATOM 2	06 CD2	LEU A	18 139.115	2.134	0.659 1.00 0.00
ATOM 2	07 H	LEU A	18 137.874	6.134	0.784 1.00 0.00
ATOM 2	08 HA	LEU A	18 139.328	4.303	2.551 1.00 0.00
ATOM 2	09 1HB	LEU A	18 140.082	5.298	-0.196 1.00 0.00
ATOM 2	10 2HB	LEU A	18 140.908	4.051	0.718 1.00 0.00
ATOM 2	11 HG	LEU A	18 138.037	3.776	-0.144 1.00 0.00
ATOM 2	12 1HD1	LEU A	18 139.230	2.178	-1.864 1.00 0.00
ATOM 2	13 2HD1	LEU A	18 140.549	3.332	-1.670 1.00 0.00
ATOM 2	14 3HD1	LEU A	18 138.969	3.883	-2.226 1.00 0.00
ATOM 2	:15 1HD2	LEU A	18 140.134	1.935	0.954 1.00 0.00

ATOM	216	2HD2	LEU A	18 138.751	1.320	0.050 1.00 0.00
ATOM	217	3HD2	LEU A	18 138.497	2.226	1.540 1.00 0.00
ATOM	218	N	GLU A	19 140.763	6.029	3.581 1.00 0.00
ATOM	219	CA	GLU A	19 141.670	6.993	4.194 1.00 0.00
ATOM	220	С	GLU A	19 142.671	6.294	5.108 1.00 0.00
ATOM	221	0	GLU A	19 142.581	5.089	5.338 1.00 0.00
ATOM	222	CB	GLU A	19 140.878	8.036	4.986 1.00 0.00
ATOM	223	CG	GLU A	19 139.943	7.432	6.022 1.00 0.00
ATOM	224	CD	GLU A	19 138.972	8.446	6.592 1.00 0.00
ATOM	225	OE1	GLU A	19 138.749	8.429	7.820 1.00 0.00
ATOM	226	OE2	GLU A	19 138.435	9.259	5.810 1.00 0.00
ATOM	227	Н	GLU A	19 140.458	5.260	4.107 1.00 0.00
ATOM	228	HA	GLU A	19 142.209	7.491	3.402 1.00 0.00
ATOM	229	1HB	GLU A	19 141.573	8.686	5.497 1.00 0.00
ATOM	230	2HB	GLU A	19 140.288	8.623	4.298 1.00 0.00
ATOM	231	1HG	GLU A	19 139.378	6.637	5.558 1.00 0.00
ATOM	232	2HG	GLU A	19 140.535	7.027	6.830 1.00 0.00
ATOM	233	N	VAL A	20 143.626	7.060	5.626 1.00 0.00
ATOM	234	CA	VAL A	20 144.644	6.514	6.516 1.00 0.00
ATOM	235	С	VAL A	20 144.014	5.893	7.757 1.00 0.00
ATOM	236	0	VAL A	20 143.157	6.499	8.401 1.00 0.00
ATOM	237	CB	VAL A	20 145.649	7.598	6.952 1.00 0.00
ATOM	238	CG1	VAL A	20 146.811	6.976	7.710 1.00 0.00
ATOM	1 239	CG2	VAL A	20 146.147	8.381	5.747 1.00 0.00
ATOM	1 240	Н	VAL A	20 143.645	8.015	5.406 1.00 0.00
ATOM	1 241	HA	VAL A	20 145.184	5.750	5.976 1.00 0.00
ATON	1 242	ΗВ	VAL A	20 145.142	8.284	7.615 1.00 0.00
ATON	1 243	1HG	1 VAL A	20 147.087	6.042	7.244 1.00 0.00
ATON	I 244	2HG	1 VAL A	20 146.517	6.793	8.733 1.00 0.00

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ATOM	245	3HG1	VAL A	20 147.655	7.650	7.693 1.00 0.00
ATOM	246	1HG2	VAL A	20 147.116	8.803	5.967 1.00 0.00
ATOM	247	2HG2	VAL A	20 145.451	9.175	5.521 1.00 0.00
ATOM	248	3HG2	VAL A	20 146.227	7.720	4.897 1.00 0.00
ATOM	249	N	GLY A	21 144.445	4.680	8.089 1.00 0.00
ATOM	250	CA	GLY A	21 143.912	3.996	9.253 1.00 0.00
ATOM	251	С	GLY A	21 142.916	2.914	8.885 1.00 0.00
ATOM	252	0	GLY A	21 142.848	1.876	9.542 1.00 0.00
ATOM	253	Н	GLY A	21 145.130	4.247	7.539 1.00 0.00
ATOM	254	1HA	GLY A	21 144.730	3.548	9.799 1.00 0.00
ATOM	255	2HA	GLY A	21 143.424	4.720	9.888 1.00 0.00
ATOM	256	N	SER A	22 142.142	3.158	7.834 1.00 0.00
ATOM	257	CA	SER A	22 141.145	2.196	7.379 1.00 0.00
ATOM	258	С	SER A	22 141.791	1.093	6.546 1.00 0.00
ATOM	259	0	SER A	22 142.817	1.309	5.902 1.00 0.00
ATOM	260	CB	SER A	22 140.061	2.901	6.561 1.00 0.00
ATOM	261	OG	SER A	22 139.134	3.563	7.404 1.00 0.00
ATOM	262	Н	SER A	22 142.245	4.005	7.350 1.00 0.00
ATOM	263	HA	SER A	22 140.691	1.752	8.253 1.00 0.00
ATOM	264	1HB	SER A	22 140.522	3.631	5.911 1.00 0.00
ATOM	265	2HB	SER A	22 139.532	2.172	5.965 1.00 0.00
ATOM	266	HG	SER A	22 139.608	4.049	8.083 1.00 0.00
ATOM	267	N	LEU A	23 141.182	-0.088	6.563 1.00 0.00
ATOM	268	CA	LEU A	23 141.698	-1.224	5.809 1.00 0.00
ATOM	269	С	LEU A	23 141.307	-1.125	4.338 1.00 0.00
ATOM	270	0	LEU A	23 140.274	-0.549	3.998 1.00 0.00
ATOM	271	CB	LEU A	23 141.177	-2.535	6.399 1.00 0.00
ATOM	272	CG	LEU A	23 141.354	-2.680	7.911 1.00 0.00
ATOM	273	CD1	LEU A	23 140.277	-3.584	8.491 1.00 0.00

ATOM	274	CD2	LEU A	23	142.738	-3.221	8.235 1.00 0.00
ATOM	275	H	LEU A	23	140.367	-0.198	7.095 1.00 0.00
ATOM	276	HA	LEU A	23	142.775	-1.210	5.884 1.00 0.00
ATOM	277	1HB	LEU A	23	140.123	-2.612	6.172 1.00 0.00
ATOM	278	2HB	LEU A	23	141.693	-3.352	5.919 1.00 0.00
ATOM	279	HG	LEU A	23	141.257	-1.708	8.373 1.00 0.00
ATOM	280	1HD1	LEU A	23	140.028	-3.253	9.489 1.00 0.00
ATOM	281	2HD1	LEU A	23	140.642	-4.600	8.529 1.00 0.00
ATOM	282	3HD1	LEU A	23	139.396	-3.540	7.868 1.00 0.00
ATOM	283	1HD2	LEU A	23	143.421	-2.963	7.439 1.00 0.00
ATOM	284	2HD2	LEU A	23	142.691	-4.296	8.333 1.00 0.00
ATOM	285	3HD2	LEU A	23	143.085	-2.791	9.162 1.00 0.00
ATOM	286	N	ALA A	24	142.140	-1.689	3.470 1.00 0.00
ATOM	287	CA	ALA A	. 24	141.882	-1.663	2.035 1.00 0.00
ATOM	288	С	ALA A	. 24	.142.477	-2.887	1.349 1.00 0.00
ATOM	289	0	ALA A	. 24	143.416	-3.502	1.856 1.00 0.00
ATOM	290	CB	ALA A	. 24	142.439	-0.388	1.421 1.00 0.00
ATOM	291	Н	ALA A	24	142.948	-2.133	3.802 1.00 0.00
ATOM	292	HA	ALA A	24	140.811	-1.667	1.890 1.00 0.00
ATOM	293	1HB	ALA A	24	143.407	-0.591	0.986 1.00 0.00
ATOM	294	2HB	ALA A	24	142.541	0.365	2.188 1.00 0.00
ATOM	295	ЗНВ	ALA A	24	141.767	-0.034	0.654 1.00 0.00
ATOM	296	N	GLU A	25	141.926	-3.237	0.191 1.00 0.00
ATOM	297	CA	GLU A	25	142.403	-4.388	-0.566 1.00 0.00
ATOM	298	С	GLU A	25	142.632	-4.020	-2.029 1.00 0.00
ATOM	299	0	GLU A	A 25	141.891	-3.223	-2.602 1.00 0.00
ATOM	300	CB	GLU A	A 25	141.401	-5.540	-0.470 1.00 0.00
ATOM	301	CG	GLU A	A 25	142.005	-6.899	-0.780 1.00 0.00
ATOM	302	CD	GLU A	A 25	141.078	-7.776	-1.599 1.00 0.00

ATOM	303	OE1	GLU A	25	141.583	-8.664	-2.319	1.00	0.00
ATOM	304	0E2	GLU A	25	139.847	-7.577	-1.520	1.00	0.00
ATOM	305	Н	GLU A	25	141.181	-2.708	-0.163	1.00	0.00
ATOM	306	HA	GLU A	25	143.341	-4.703	-0.135	1.00	0.00
ATOM	307	1HB	GLU A	25	140.998	-5.569	0.532	1.00	0.00
ATOM	308	2HB	GLU A	25	140.596	-5.360	-1.167	1.00	0.00
ATOM	309	1HG	GLU A	25	142.920	-6.755	-1.332	1.00	0.00
ATOM	310	2HG	GLU A	25	142.223	-7.402	0.152	1.00	0.00
ATOM	311	N	VAL A	26	143.664	-4.607	-2.627	1.00	0.00
ATOM	312	CA	VAL A	26	143.992	-4.340	-4.022	1.00	0.00
ATOM	313	С	VAL A	26	143.563	-5.497	-4.918	1.00	0.00
ATOM	314	0	VAL A	26	143.381	-6.622	-4.450	1.00	0.00
ATOM	315	CB	VAL A	26	145.500	-4.093	-4.208	1.00	0.00
ATOM	316	CG1	VAL A	26	145.793	-3.607	-5.619	1.00	0.00
ATOM	317	CG2	VAL A	26	146.010	-3.097	-3.177	1.00	0.00
ATOM	318	H	VAL A	26	144.220	-5.233	-2.117	1.00	0.00
ATOM	319	HA	VAL A	26	143.462	-3.448	-4.325	1.00	0.00
ATOM	320	HB	VAL A	26	146.019	-5.029	-4.060	1.00	0.00
ATOM	321	1HG1	VAL A	26	145.913	-4.456	-6.276	1.00	0.00
ATOM	322	2HG1	VAL A	26	146.700	-3.022	-5.618	1.00	0.00
ATOM	323	3HG1	VAL A	26	144.972	-2.997	-5.968	1.00	0.00
ATOM	324	1HG2	VAL A	26	146.053	-3.572	-2.209	1.00	0.00
ATOM	325	2HG2	VAL A	26	145.341	-2.250	-3.133	1.00	0.00
ATOM	326	3HG2	VAL A	26	146.998	-2.762	-3.457	1.00	0.00
ATOM	327	N	LYS A	27	143.402	-5.215	-6.206	1.00	0.00
ATOM	328	CA	LYS A	27	142.994	-6.233	-7.167	1.00	0.00
ATOM	1 329	С	LYS A	27	144.201	-6.795	-7.911	1.00	0.00
ATOM	1 330	0	LYS A	27	144.125	-7.090	-9.103	1.00	0.00
ATON	1 331	CB	LYS A	27	141.991	-5.650	-8.164	1.00	0.00

ATOM 332	CG	LYS A	27 142.567	-4.539	-9.028 1.00 0.0	00
ATOM 333	CD	LYS A	27 141.949	-4.536 -	10.418 1.00 0.0	00
ATOM 334	CE	LYS A	27 142.791	-5.328 -	11.406 1.00 0.0	00
ATOM 335	NZ	LYS A	27 141.989	-6.363 -	12.115 1.00 0.0	00
ATOM 336	Н	LYS A	27 143.561	-4.300	-6.518 1.00 0.0	00
ATOM 337	HA	LYS A	27 142.519	-7.033	-6.620 1.00 0.0	00
ATOM 338	1HB	LYS A	27 141.647	-6.440	-8.815 1.00 0.0	00
ATOM 339	2HB	LYS A	27 141.149	-5.252	-7.619 1.00 0.0	00
ATOM 340	1HG	LYS A	27 142.369	-3.589	-8.556 1.00 0.	00
ATOM 341	2HG	LYS A	27 143.634	-4.683	-9.117 1.00 0.	00
ATOM 342	1HD	LYS A	27 140.966	-4.979 -	-10.364 1.00 0.	00
ATOM 343	2HD	LYS A	27 141.868	-3.516 -	-10.762 1.00 0.	00
ATOM 344	1HE	LYS A	27 143.204	-4.646	-12.134 1.00 0.	00
ATOM 345	2HE	LYS A	27 143.595	-5.812	-10.871 1.00 0.	00
ATOM 346	1HZ	LYS A	27 142.045	-7 . 269	-11.606 1.00 0.	00
ATOM 347	2HZ	LYS A	27 142.351	-6.497	-13.081 1.00 0.	00
ATOM 348	3HZ	LYS A	27 140.993	-6.068	-12.168 1.00 0.	00
ATOM 349	N	GLU A	28 145.314	-6.940	-7.199 1.00 0.	00
ATOM 350	CA	GLU A	28 146.537	-7.467	-7.793 1.00 0.	00
ATOM 351	C	GLU A	28 146.479	-8.988	-7.899 1.00 0.	00
ATOM 352	0	GLU A	28 145.509	-9.614	-7.472 1.00 0.	00
ATOM 353	CB	GLU A	28 147.753	-7.046	-6.964 1.00 0.	00
ATOM 354	CG	GLU A	28 148.886	-6.467	-7.797 1.00 0	00
ATOM 355	CD	GLU A	28 150.212	-6.475	-7.064 1.00 0	. 00
ATOM 356	OE1	GLU A	28 150.759	-5.379	-6.815 1.00 0	. 00
ATOM 357	OE2	GLU A	28 150.704	-7.575	-6.738 1.00 0	. 00
ATOM 358	H	GLU A	28 145.312	-6.687	-6.252 1.00 0	. 00
ATOM 359	HA	GLU A	28 146.628	-7.052	-8.786 1.00 0	. 00
ATOM 360	1HE	GLU A	28 147.445	-6.299	-6.248 1.00 0	. 00

ATOM 361 2HB GLU A 28 148.131 -7.908 -6.433 1.00 0.00 ATOM 362 1HG GLU A 28 148.987 -7.052 -8.699 1.00 0.00 ATOM 363 2HG GLU A 28 148.639 -5.448 -8.058 1.00 0.00 ATOM 364 N ASN A 29 147.525 -9.576-8.471 1.00 0.00 ATOM 365 CA ASN A 29 147.594 -11.024 -8.632 1.00 0.00 C ASN A 29 147.522 -11.726 ATOM 366 -7.277 1.00 0.000 ASN A 29 146.628 -12.537 ATOM 367 -7.037 1.00 0.00ATOM 368 CB ASN A 29 148.882 -11.416 -9.358 1.00 0.00 ATOM 369 CG ASN A 29 148.671 -11.604 -10.847 1.00 0.00 29 148.987 -12.657 -11.403 1.00 0.00 ATOM 370 OD1 ASN A ATOM 371 ND2 ASN A 29 148.135 -10.581 -11.504 1.00 0.00 ATOM 372 H ASN A 29 148.269 -9.024 -8.791 1.00 0.00 ATOM 373 HA ASN A 29 146.747 -11.331 -9.228 1.00 0.00 ATOM 374 1HB ASN A 29 149.620 -10.641 -9.214 1.00 0.00 ASN A ATOM 375 2HB 29 149.253 -12.343 -8.946 1.00 0.00 ATOM 376 1HD2 ASN A 29 147.909 -9.774 -10.996 1.00 0.00 2HD2 ASN A 29 147.987 -10.675 -12.468 1.00 0.00 ATOM 377 N 30 148.467 -11.421 ATOM 378 PRO A -6.372 1.00 0.00 ATOM 379 CA PRO A 30 148.507 -12.026 -5.039 1.00 0.00 С ATOM 380 PRO A 30 147.460 -11.429 -4.099 1.00 0.00 30 147.579 -10.276 ATOM 381 0 PRO A -3.682 1.00 0.00 ATOM 382 CB PRO A 30 149.915 -11.691 -4.549 1.00 0.00 ATOM 383 CG PRO A 30 150.256 -10.414 -5.236 1.00 0.00 ATOM 384 CD PRO A 30 149.572 -10.463 -6.576 1.00 0.00 ATOM 385 PRO A HA 30 148.384 -13.098 -5.085 1.00 0.00 ATOM 386 1HB PRO A 30 149.908 -11.575 -3.475 1.00 0.00 ATOM 387 2HB PRO A 30 150.595 -12.482 -4.827 1.00 0.00 ATOM 388 1HG PRO A 30 149.888 -9.578 -4.658 1.00 0.00 ATOM 389 2HG PRO A 30 151.326 -10.340 -5.363 1.00 0.00

ATOM	390	1HD	PRO A	30	149.191	-9.487	-6.840	1.00	0.00
ATOM	391	2HD	PRO A	30	150.254	-10.817	-7.334	1.00	0.00
ATOM	392	N	PRO A	31	146.417	-12.204	-3.751	1.00	0.00
ATOM	393	CA	PRO A	31	145.353	-11.735	-2.857	1.00	0.00
ATOM	394	C	PRO A	A 31	145.844	-11.540	-1.426	1.00	0.00
ATOM	395	0	PRO A	A 31	145.741	-12.443	-0.595	1.00	0.00
ATOM	396	CB	PRO A	A 31	144.313	-12.857	-2.917	1.00	0.00
ATOM	397	CG	PRO A	A 31	145.088	-14.071	-3.297	1.00	0.00
ATOM	398	CD	PRO A	A 31	146.191	-13.592	-4.199	1.00	0.00
ATOM	399	HA	PRO A	A 31	144.914	-10.815	-3.213	1.00	0.00
ATOM	400	1HB	PRO A	A 31	143.847	-12.973	-1.949	1.00	0.00
ATOM	401	2HB	PRO A	A 31	143.565	-12.620	-3.658	1.00	0.00
ATOM	402	1HG	PRO A	A 31	145.501	-14.535	-2.413	1.00	0.00
ATOM	403	2HG	PRO A	A 31	144.449	-14.766	-3.823	1.00	0.00
ATOM	404	1HD	PRO A	A 31	147.078	-14.192	-4.061	1.00	0.00
ATOM	405	2HD	PRO A	A 31	145.872	-13.617	-5.230	1.00	0.00
ATOM	406	N	PHE A	A 32	146.377	-10.356	-1.146	1.00	0.00
ATOM	407	CA	PHE	A 32	146.885	-10.041	0.185	1.00	0.00
ATOM	408	С	PHE	A 32	145.947	-9.083	0.912	1.00	0.00
ATOM	409	0	PHE	A 32	144.998	-8.562	0.324	1.00	0.00
ATOM	410	CB	PHE A	A 32	148.283	-9.430	0.090	1.00	0.00
ATOM	411	CG	PHE	A 32	148.404	-8.366	-0.964	1.00	0.00
ATOM	412	CD1	PHE .	A 32	147.687	-7. 185	-0.859	1.00	0.00
ATOM	413	CD2	PHE	A 32	149.233	-8.548	-2.059	1.00	0.00
ATOM	414	CE1	PHE .	A 32	147.796	-6. 205	-1.827	1.00	0.00
ATOM	415	CE2	PHE .	A 32	149.346	-7.572	-3.030	1.00	0.00
ATOM	416	CZ	PHE .	A 32	148.626	-6.397	-2.914	1.00	0.00
ATOM	417	H	PHE .	A 32	146.430	-9.677	-1.850	1.00	0.00
ATOM	418	HA	PHE .	A 32	146.941	-10.963	0.744	1.00	0.00

ATOM -	419	1HB	PHE A	32	148.540	-8.987	1.040 1.00 0.00	
ATOM	420	2HB	PHE A	32	148.994	-10.210	-0.141 1.00 0.00	
ATOM	421	HD1	PHE A	32	147.038	-7.032	-0.010 1.00 0.00	
ATOM	422	HD2	PHE A	32	149.796	-9.465	-2.151 1.00 0.00	
ATOM	423	HE1	PHE A	32	147. 232	-5.289	-1.734 1.00 0.00	
ATOM	424	HE2	PHE A	32	149.995	-7.724	-3.879 1.00 0.00	
ATOM	425	HZ	PHE A	32	148.712	-5.632	-3.672 1.00 0.00	
ATOM	426	N	TYR A	33	146.217	-8.856	2.193 1.00 0.00	
ATOM	427	CA	TYR A	33	145.397	-7.958	2.999 1.00 0.00	
ATOM	428	C	TYR A	33	146.269	-6.990	3.793 1.00 0.00	
ATOM	429	0	TYR A	33	147.270	-7.387	4.389 1.00 0.00	
ATOM	430	CB	TYR A	33	144.511	-8.763	3.952 1.00 0.00	
ATOM	431	CG	TYR A	33	143.249	-9.290	3.306 1.00 0.00	
ATOM	432	CD1	TYR A	33	142.903	-10.632	3.406 1.00 0.00	
ATOM	433	CD2	TYR A	33	142.405	-8.447	2.595 1.00 0.00	
ATOM	434	CE1	TYR A	33	141.751	-11.118	2.817 1.00 0.00	
ATOM	435	CE2	TYR A	33	141.251	-8.925	2.003 1.00 0.00	
ATOM	436	CZ	TYR A	33	140.929	-10.261	2.116 1.00 0.00	
ATOM	437	OH	TYR A	33	139.781	-10.740	1.529 1.00 0.00	
ATOM	438	H	TYR A	33	146.987	-9.300	2.605 1.00 0.00	
ATOM	439	HA	TYR A	33	144.769	-7.392	2.329 1.00 0.00	
ATOM	440	1HB	TYR A	33	145.069	-9.608	4.325 1.00 0.00	
ATOM	441	2HB	TYR A	33	144.222	-8.134	4.780 1.00 0.00	
ATOM	442	HD1	TYR A	33	143.549	-11.302	3.956 1.00 0.00	
ATOM	443	HD2	TYR A	. 33	142.661	-7.401	2.507 1.00 0.00	
ATOM	444	HE1	TYR A	. 33	141.500	-12.165	2.907 1.00 0.00	
ATOM	445	HE2	TYR A	. 33	140.609	-8.253	1.455 1.00 0.00	
ATOM	446	ΗН	TYR A	. 33	139.736	-10.436	0.620 1.00 0.00	
ATOM	447	N	GLY A	. 34	145.880	-5.719	3.796 1.00 0.00	

ATOM 448	CA	GLY A	34 146.637	-4.715	4.519 1.00 0.00
ATOM 449	С	GLY A	34 145.778	-3.546	4.957 1.00 0.00
ATOM 450	0	GLY A	34 144.551	-3.643	4.984 1.00 0.00
ATOM 451	Н	GLY A	34 145.074	-5.462	3.302 1.00 0.00
ATOM 452	1HA	GLY A	34 147.077	-5.172	5.393 1.00 0.00
ATOM 453	2HA	GLY A	34 147.427	-4.348	3.881 1.00 0.00
ATOM 454	N	VAL A	35 146.423	-2.435	5.301 1.00 0.00
ATOM 455	CA	VÀL A	35 145.710	-1.242	5.740 1.00 0.00
ATOM 456	C .	VAL A	35 146.363	0.022	5.187 1.00 0.00
ATOM 457	0	VAL A	35 147.577	0.070	4.991 1.00 0.00
ATOM 458	CB	VAL A	35 145.657	-1.154	7.279 1.00 0.00
ATOM 459	CG1	VAL A	35 147.060	-1.060	7.861 1.00 0.00
ATOM 460	CG2	VAL A	35 144.809	0.029	7.720 1.00 0.00
ATOM 461	H.	VAL A	35 147.402	-2.420	5.259 1.00 0.00
ATOM 462	HA	VAL A	35 144.698	-1.304	5.370 1.00 0.00
ATOM 463	HB	VAL A	35 145.199	-2.057	7.654 1.00 0.00
ATOM 464	1HG	1 VAL A	35 147.690	-1.812	7.406 1.00 0.00
ATOM 465	2HG	1 VAL A	35 147.020	-1.222	8.927 1.00 0.00
ATOM 466	3HG	1 VAL A	35 147.468	-0.080	7.660 1.00 0.00
ATOM 467	1HG:	2 VAL A	35 143.784	-0.133	7.423 1.00 0.00
ATOM 468	2HG	2 VAL A	35 145.180	0.932	7.257 1.00 0.00
ATOM 469	3HG	2 VAL A	35 144.861	0.129	8.795 1.00 0.00
ATOM 470	N	ILE A	36 145.548	1.042	4.939 1.00 0.00
ATOM 471	CA	ILE A	36 146.046	2.306	4.409 1.00 0.00
ATOM 472	С	ILE A	36 146.970	2.992	5.410 1.00 0.00
ATOM 473	0	ILE A	36 146.688	3.027	6.607 1.00 0.00
ATOM 474	CB	ILE A	36 144:891	3.262	4.051 1.00 0.00
. ATOM 475	CG1	ILE A	36 143.876	2.558	3.149 1.00 0.00
ATOM 476	CG2	ILE A	36 145.430	4.514	3.374 1.00 0.00

ATOM	477	CD1	ILE	A	36	142.709	3.435	2.752	1.00	0.00
ATOM	478	H	ILE	A	36	144.590	0.943	5.117	1.00	0.00
ATOM	479	HA	ILE	A	36	146.603	2.093	3.508	1.00	0.00
ATOM	480	HB	ILE	A	36	144.404	3.561	4.967	1.00	0.00
ATOM	481	1HG1	ILE	A	36	144.369	2.234	2.246	1.00	0.00
ATOM	482	2HG1	ILE	A	36	143.482	1.695	3.667	1.00	0.00
ATOM	483	1HG2	ILE	A	36	146.162	4.235	2.630	1.00	0.00
ATOM	484	2HG2	ILE	A	36	145.893	5.152	4.112	1.00	0.00
ATOM	485	3HG2	ILE	A	36	144.618	5.044	2.898	1.00	0.00
ATOM	486	1HD1	ILE	A	36	142.535	3.343	1.690	1.00	0.00
ATOM	487	2HD1	ILE	A	36	142.935	4.464	2.992	1.00	0.00
ATOM	488	3HD1	ILE	A	36	141.826	3.126	3.290	1.00	0.00
ATOM	489	N	ARG	A	37	148.076	3.535	4.910	1.00	0.00
ATOM	490	CA	ARG	A	37	149.042	4.220	5.761	1.00	0.00
ATOM	491	С	ARG	A	37	149.240	5.664	5.308	1.00	0.00
ATOM	492	0	ARG	A	37	148.974	6.601	6.060	1.00	0.00
ATOM	493	CB	ARG	A	37	150.382	3.480	5.742	1.00	0.00
ATOM	494	CG	ARG	A	37	150.258	1.992	6.024	1.00	0.00
ATOM	495	CD	ARG	A	37	149.607	1.733	7.373	1.00	0.00
ATOM	496	NE	ARG	A	37	150.302	2.420	8.458	1.00	0.00
ATOM	497	CZ	ARG	A	37	149.765	2.653	9.653	1.00	0.00
ATOM	498	NH1	ARG	A	37	148.527	2.255	9.921	1.00	0.00
ATOM	499	NH2	ARG	A	37	150.467	3.285	10.584	1.00	0.00
ATOM	500	Н	ARG	A	37	148.246	3.474	3.947	1.00	0.00
ATOM	501	HA	ARG	A	37	148.656	4.221	6.768	1.00	0.00
ATOM	502	1HB	ARG	A	37	150.835	3.605	4.769	1.00	0.00
ATOM	503	2HB	ARG	A	37	151.030	3.914	6.489	1.00	0.00
ATOM	504	1HG	ARG	A	37	149.657	1.537	5.251	1.00	0.00
ATOM	505	2HG	ARG	A	37	151.245	1.553	6.020	1.00	0.00

ATOM 50	06	1HD	ARG	A	37	148.58	35 2	. 079	7.337	1.00	0.00
ATOM 50	07	2HD	ARG	A	37	149.62	0 02	. 670	7.565	1.00	0.00
ATOM 50	08 1	HE	ARG	A	37	151.21	19 2	. 724	8.288	1.00	0.00
ATOM 50	09	1HH1	ARG	A	37	147.99	92 1	. 778	9.224	1.00	0.00
ATOM 5	10	2HH1	ARG	A	37	148.12	29 2	. 432	10.820	1.00	0.00
ATOM 5	11	1HH2	ARG	A	37	151.40	00 3	3. 585	10.387	1.00	0.00
ATOM 5	12	2HH2	ARG	A	37	150.06	33 3	3.460	11.482	1.00	0.00
ATOM 5	13	N	TRP	A	38	149.70	05 5	. 835	4.075	1.00	0.00
ATOM 5	14	CA	TRP	A	38	149.93	38 7	. 166	3.525	1.00	0.00
ATOM 5	15	С	TRP	A	38	149.2	54 7	7.323	2.169	1.00	0.00
ATOM 5	16	0	TRP	A	38	149.3	60 6	6.454	1.304	1.00	0.00
ATOM 5	17	СВ	TRP	A	38	151.4	41 7	7.431	3.388	1.00	0.00
ATOM 5	18	CG	TRP	A	38	151.7	63 8	3.666	2.600	1.00	0.00
ATOM 5	19	CD1	TRP	A	38	151.9	26 9	9.931	3.086	1.00	0.00
ATOM 5	20	CD2	TRP	A	38	151.9	55 8	8.752	1.183	1.00	0.00
ATOM 5	521	NE1	TRP	A	38	152.2	07 10	0.799	2.058	1.00	0.00
ATOM 5	522	CE2	TRP	A	38	152.2	31 10	0.098	0.880	1.00	0.00
ATOM 5	523	CE3	TRP	A	38	151.9	21 '	7.821	0.141	1.00	0.00
ATOM 5	524	CZ2	TRP	A	38	152.4	71 1	0.535	-0.422	1.00	0.00
ATOM 5	525	CZ3	TRP	A	38	152.1	.59	8.254	-1.149	1.00	0.00
ATOM 5	526	CH2	TRP	A	38	152.4	31	9.601	-1.420	1.00	0.00
ATOM 5	527	Н	TRP	A	38	149.8	898	5.049	3.523	1.00	0.00
ATOM 5	528	HA	TRP	A	38	149.5	516	7.885	4.211	1.00	0.00
ATOM 5	529	1HB	TRP	Α	38	151.8	371	7.544	4.373	1.00	0.00
ATOM 5	530	2HB	TRP	Α	38	151.9	904	6.589	2.894	1.00	0.00
ATOM 5	531	HD1	TRP	Α	38	3 151.8	342 1	0.198	4.129	1.00	0.00
ATOM S	532	HE1	TRP	A	38	3 152.3	366 1	1.761	2.153	1.00	0.00
ATOM 5	533	HE3	TRF	A	38	3 151.7	713	6.779	0.331	1.00	0.00
ATOM S	534	HZ2	TRF	A	38	3 152.6	579 1	1.570	-0.648	1.00	0.00

ATOM 535	HZ3	TRP A	38 152.138	7.548	-1.966 1.00 0.00
ATOM 536	НН2	TRP A	38 152.612	9.895	-2.444 1.00 0.00
ATOM 537	N	ILE A	39 148.559	8.442	1.993 1.00 0.00
ATOM 538	CA	ILE A	39 147.864	8.725	0.744 1.00 0.00
ATOM 539	С	ILE A	39 148.314	10.064	0.170 1.00 0.00
ATOM 540	0	ILE A	39 147.947	11.122	0.681 1.00 0.00
ATOM 541	CB	ILE A	39 146.337	8.750	0.942 1.00 0.00
ATOM 542	CG1	ILE A	39 145.876	7.502	1.698 1.00 0.00
ATOM 543	CG2	ILE A	39 145.630	8.855	-0.400 1.00 0.00
ATOM 544	CD1	ILE A	39 144.499	7.639	2.309 1.00 0.00
ATOM 545	H	ILE A	39 148.519	9.097	2.721 1.00 0.00
ATOM 546	HA	ILE A	39 148.104	7.941	0.041 1.00 0.00
ATOM 547	HB	ILE A	39 146.085	9.626	1.522 1.00 0.00
ATOM 548	1HG1	I ILE A	39 145.854	6.665	1.016 1.00 0.00
ATOM 549	2HG	I ILE A	39 146.575	7.294	2.494 1.00 0.00
ATOM 550	1HG2	2 ILE A	39 146.098	9.626	-0.994 1.00 0.00
ATOM 551	2HG2	2 ILE A	39 144.590	9.104	-0.243 1.00 0.00
ATOM 552	3HG	2 ILE A	39 145.699	7.909	-0.918 1.00 0.00
ATOM 553	1HD	1 ILE A	39 144.001	8.499	1.886 1.00 0.00
ATOM 554	2HD	1 ILE A	39 144.590	7.764	3.378 1.00 0.00
ATOM 555	3HD	1 ILE A	39 143.922	6.750	2.099 1.00 0.00
ATOM 556	N	GLY A	40 149.115	10.011	-0.889 1.00 0.00
ATOM 557	CA	GLY A	40 149.604	11.231	-1.504 1.00 0.00
ATOM 558	С	GLY A	40 150.212	10.994	-2.873 1.00 0.00
ATOM 559	0	GLY A	40 150.068	9.916	-3.447 1.00 0.00
ATOM 560	H	GLY A	40 149.379	9.141	-1.252 1.00 0.00
ATOM 561	1HA	GLY A	40 148.785	11.925	-1.603 1.00 0.00
ATOM 562	2HA	GLY A	40 150.353	11.667	-0.862 1.00 0.00
ATOM 563	N	GLN A	41 150.892	12.010	-3.394 1.00 0.00

ATOM	564	CA	GLN	A	41	151.525	11.919	-4.703	1.00	0.00
ATOM	565	С	GLN	A	41	153.000	12.311	-4.618	1.00	0.00
ATOM	566	0	GLN	A	41	153.325	13.461	-4.321	1.00	0.00
ATOM	567	CB	GLN	A	41	150.799	12.825	-5.696	1.00	0.00
ATOM	568	CG	GLN	A	41	149.288	12.653	-5.685	1.00	0.00
ATOM	569	CD	GLN	A	41	148.551	13.969	-5.825	1.00	0.00
ATOM	570	OE1	GLN	A	41	148.474	14.755	-4.881	1.00	0.00
ATOM	571	NE2	GLN	A	41	148.004	14.216	-7.009	1.00	0.00
ATOM	572	Н	GLN	A	41	150.968	12.844	-2.886	1.00	0.00
ATOM	573	HA	GLN	A	41	151.451	10.897	-5.040	1.00	0.00
ATOM	574	1HB	GLN	A	41	151.023	13.853	-5.456	1.00	0.00
ATOM	575	2HB	GLN	A	41	151.158	12.610	-6.690	1.00	0.00
ATOM	576	1HG	GLN	A	41	149.005	12.010	-6.504	1.00	0.00
ATOM	577	2HG	GLN	A	41	148.999	12.192	-4.752	1.00	0.00
ATOM	578	1HE2	GLN	A	41	148. 106	13.544	-7.715	1.00	0.00
ATOM	579	2НЕ2	GLN	A	41	147.522	15.061	-7.130	1.00	0.00
ATOM	580	N	PRO	A	42	153.917	11.361	-4.876	1.00	0.00
ATOM	581	CA	PRO	A	42	155.360	11.623	-4.822	1.00	0.00
ATOM	582	С	PRO	A	42	155.779	12.746	-5.766	1.00	0.00
ATOM	583	0	PRO	A	42	155.066	13.071	-6.715	1.00	0.00
ATOM	584	CB	PRO	A	42	155.986	10.295	-5.261	1.00	0.00
ATOM	585	CG	PRO	A	42	154.937	9.272	-5.000	1.00	0.00
ATOM	586	CD	PRO	A	42	153.626	9.962	-5.237	1.00	0.00
ATOM	587	HA	PRO	A	42	155.680	11.861	-3.819	1.00	0.00
ATOM	588	1HB	PRO	A	42	156.239	10.344	-6.311	1.00	0.00
ATOM	589	2HB	PRO	A	42	156.877	10.105	-4.680	1.00	0.00
ATOM	590	1HG	PRO	A	42	155.053	8.442	-5.681	1.00	0.00
ATOM	591	2HG	PRO	A	42	155.002	8.931	-3.976	1.00	0.00
ATOM	592	1HD	PRO	A	42	153.340	9.882	-6.276	1.00	0.00

ATOM	593	2HD	PRO	A	42	152.859	9.550	-4.598	1.00	0.00
ATOM	594	N	PRO	A	43	156.951	13.355	-5.515	1.00	0.00
ATOM	595	CA	PRO	A	43	157.466	14.446	-6.347	1.00	0.00
ATOM	596	С	PRO	A	43	157.941	13.958	-7.711	1.00	0.00
ATOM	597	0	PRO	A	43	159.115	13.636	-7.891	1.00	0.00
ATOM	598	CB	PRO	A	43	158.643	14.986	-5.535	1.00	0.00
ATOM	599	CG	PRO	A	43	159.098	13.830	-4.714	1.00	0.00
ATOM	600	CD	PRO	A	43	157.863	13.027	-4.403	1.00	0.00
MOTA	601	HA	PRO	A	43	156.729	15.225	-6.481	1.00	0.00
ATOM	602	1HB	PRO	A	43	159.419	15.323	-6.207	1.00	0.00
ATOM	603	2НВ	PRO	A	43	158.312	15.805	-4.915	1.00	0.00
ATOM	604	1HG	PRO	A	43	159.800	13.233	-5.277	1.00	0.00
ATOM	605	2HG	PRO	A	43	159.553	14.185	-3.800	1.00	0.00
ATOM	606	1HD	PRO	A	43	158.092	11.973	-4.391	1.00	0.00
ATOM	607	2HD	PRO	A	43	157.442	13.334	-3.457	1.00	0.00
ATOM	608	N	GLY	A	44	157.022	13.906	-8.667	1.00	0.00
ATOM	609	CA	GLY	A	44	157.369	13.457	-10.002	1.00	0.00
ATOM	610	С	GLY	A	44	156.170	12.942	-10.771	1.00	0.00
ATOM	611	0	GLY	A	44	155.925	13.359	-11.903	1.00	0.00
ATOM	612	Н	GLY	A	44	156.101	14.175	-8.467	1.00	0.00
ATOM	613	1HA	GLY	A	44	157.804	14.281	-10.546	1.00	0.00
ATOM	614	2HA	GLY	A	44	158.100	12.664	-9.924	1.00	0.00
ATOM	615	N	LEU	A	45	155.420	12.034	-10.156	1.00	0.00
ATOM	616	CA	LEU	A	45	154.240	11.463	-10.793	1.00	0.00
ATOM	617	С	LEU	A	45	152.994	11.726	-9.956	1.00	0.00
ATOM	618	0	LEU	A	45	152.847	11.184	-8.860	1.00	0.00
ATOM	619	CB	LEU	Α	45	154.422	9.959	-10.999	1.00	0.00
ATOM	620	CG	LEU	Α	45	154.906	9.191	-9.766	1.00	0.00
ATOM	621	CD1	LEU	Α	45	154.533	7.718	-9.873	1.00	0.00

ATOM	622	CD2	LEU	A	45	156.411	9.354	-9.592	1.00	0.00
ATOM	623	Н	LEU	A	45	155.664	11.743	-9.251	1.00	0.00
ATOM	624	HA	LEU	A	45	154.119	11.938	-11.754	1.00	0.00
ATOM	625	1HB	LEU	A	45	153.476	9.542	-11.310	1.00	0.00
ATOM	626	2HB	LEU	A	45	155.140	9.810	-11.791	1.00	0.00
ATOM	627	HG	LEU	A	45	154.421	9.594	-8.889	1.00	0.00
ATOM	628	1HD1	LEU	A	45	155.414	7.111	-9.728	1.00	0.00
ATOM	629	2HD1	LEU	A	45	154.117	7.521	-10.849	1.00	0.00
ATOM	630	3HD1	LEU	A	45	153.803	7.477	-9.114	1.00	0.00
ATOM	631	1HD2	LEU	A	45	156.770	10.126	-10.257	1.00	0.00
ATOM	632	2HD2	LEU	A	45	156.904	8.422	-9.824	1.00	0.00
ATOM	633	3HD2	LEU	A	45	156.626	9.631	-8.571	1.00	0.00
ATOM	634	N	ASN	A	46	152.096	12.558	-10.474	1.00	0.00
ATOM	635	CA	ASN	A	46	150.868	3 12.879	-9.761	1.00	0.00
ATOM	636	С	ASN	A	46	149.905	5 11.697	-9.796	1.00	0.00
ATOM	637	0	ASN	A	46	149.319	11.390	-10.834	1.00	0.00
ATOM	638	CB	ASN	A	46	150.20	5 14.113	-10.378	1.00	0.00
ATOM	639	CG	ASN	A	46	149.419	9 14.917	-9.361	1.00	0.00
ATOM	640	OD1	ASN	A	46	148.199	9 15.047	-9.464	1.00	0.00
ATOM	641	ND2	ASN	A	46	150.11	7 15.463	-8.372	1.00	0.00
ATOM	642	Н	ASN	A	46	152.26	12.961	-11.350	1.00	0.00
ATOM	643	HA	ASN	A	46	151.12	3 13.092	-8.733	1.00	0.00
ATOM	644	1HB	ASN	Α	46	150.96	7 14.749	-10.800	1.00	0.00
ATOM	645	2HB	ASN	Α	46	149.53	0 13.797	-11.160	1.00	0.00
ATOM	646	1HD2	ASN	Α	46	151.08	6 15.318	-8.353	1.00	0.00
ATOM	647	2HD2	ASN	Α	46	149.63	4 15.989	-7.700	1.00	0.00
ATOM	648	N	GLU	Α	47	149.74	7 11.040	-8.654	1.00	0.00
ATOM	649	CA	GLU	Α	47	148.85	7 9.891	-8.546	1.00	0.00
ATOM	650	C	GLU	A	47	148.61	2 9.532	-7.084	1.00	0.00

ATOM	651	0	GLU A	47	149.551	9.232	-6.346	1.00	0.00
ATOM	652	CB	GLU A	47	149.445	8.687	-9.288	1.00	0.00
ATOM	653	CG	GLU A	47	150.953	8.556	-9.150	1.00	0.00
ATOM	654	CD	GLU A	47	151.556	7.633	-10.192	1.00	0.00
ATOM	655	0E1	GLU A	47	151.850	6.467	-9.853	1.00	0.00
ATOM	656	OE2	GLU A	47	151.731	8.076	-11.347	1.00	0.00
ATOM	657	H	GLU A	47	150. 243	11.335	-7.862	1.00	0.00
ATOM	658	HA	GLU A	47	147.916	10.158	-9.000	1.00	0.00
ATOM	659	1HB	GLU A	47	148.991	7.786	-8.902	1.00	0.00
ATOM	660	2HB	GLU A	47	149.208	8.776	-10.338	1.00	0.00
ATOM	661	1HG	GLU A	47	151.398	9.534	-9.258	1.00	0.00
ATOM	662	2HG	GLU A	47	151.182	8.166	-8.169	1.00	0.00
ATOM	663	N	VAL A	48	147.351	9.557	-6.671	1.00	0.00
ATOM	664	CA	VAL A	48	146.997	9.226	-5.298	1.00	0.00
ATOM	665	C	VAL A	48	147.343	7.775	-4.989	1.00	0.00
ATOM	666	0	VAL A	48	146.591	6.861	-5.329	1.00	0.00
ATOM	667	CB	VAL A	48	145.499	9.456	-5.029	1.00	0.00
ATOM	668	CG1	VAL A	48	145.192	9.299	-3.547	1.00	0.00
ATOM	669	CG2	VAL A	48	145.072	10.828	-5.527	1.00	0.00
ATOM	670	Н	VAL A	48	146.643	9.799	-7.304	1.00	0.00
ATOM	671	HA	VAL A	48	147.567	9.869	-4.641	1.00	0.00
ATOM	672	HB	VAL A	48	144.938	8.708	-5.570	1.00	0.00
ATOM	673	1HG1	VAL A	48	144.163	9.571	-3.362	1.00	0.00
ATOM	674	2HG1	VAL A	48	145.843	9.943	-2.974	1.00	0.00
ATOM	675	3HG1	VAL A	48	145.351	8.273	-3.252	1.00	0.00
ATOM	676	1HG2	VAL A	48	144.130	11.099	-5.073	1.00	0.00
ATOM	677	2HG2	VAL A	48	144.958	10.801	-6.601	1.00	0.00
ATOM	678	3HG2	VAL A	48	145.822	11.558	-5.263	1.00	0.00
ATOM	679	N	LEU A	49	148.487	7.569	-4.345	1.00	0.00

ATOM	680	CA	LEU	A	49	148.934	6.227	-3.994	1.00	0.00
ATOM	681	С	LEU	A	49	148.788	5.983	-2.498	1.00	0.00
ATOM	682	0	LEU	A	49	149.449	6.633	-1.687	1.00	0.00
ATOM	683	CB	LEU	A	49	150.390	6.023	-4.417	1.00	0.00
ATOM	684	CG	LEU	A	49	150.667	6.237	-5.906	1.00	0.00
MOTA	685	CD1	LEU	A	49	152.113	6.656	-6.125	1.00	0.00
ATOM	686	CD2	LEU	A	49	150.352	4.974	-6.693	1.00	0.00
ATOM	687	Н	LEU	A	49	149.045	8.336	-4.102	1.00	0.00
ATOM	688	HA	LEU	A	49	148.313	5.521	-4.524	1.00	0.00
ATOM	689	1HB	LEU	A	49	151.005	6.711	-3.855	1.00	0.00
ATOM	690	2HB	LEU	A	49	150.680	5.015	-4.162	1.00	0.00
ATOM	691	HG	LEU	A	49	150.032	7.029	-6.275	1.00	0.00
ATOM	692	1HD1	LEU	A	49	152.177	7.734	-6.140	1.00	0.00
ATOM	693	2HD1	LEU	A	49	152.464	6.261	-7.067	1.00	0.00
ATOM	694	3HD1	LEU	A	49	152.725	6.271	-5.323	1.00	0.00
ATOM	695	1HD2	LEU	A	49	151.242	4.367	-6.770	1.00	0.00
ATOM	696	2HD2	LEU	A	49	150.012	5.241	-7.682	1.00	0.00
ATOM	697	3HD2	LEU	A	49	149.579	4.416	-6.185	1.00	0.00
ATOM	698	N	ALA	A	50	147.919	5.047	-2.139	1.00	0.00
ATOM	699	CA	ALA	A	50	147.689	4.724	-0.738	1.00	0.00
ATOM	700	С	ALA	A	50	148.600	3.591	-0.281	1.00	0.00
ATOM	701	0	ALA	A	50	148.489	2.461	-0.758	1.00	0.00
ATOM	702	CB	ALA	A	50	146.230	4.357	-0.514	1.00	0.00
ATOM	703	Н	ALA	A	50	147.421	4.564	-2.831	1.00	0.00
ATOM	704	HA	ALA	A	50	147.909	5.608	-0.156	1.00	0.00
ATOM	705	1HB	ALA	A	50	145.901	4.754	0.435	1.00	0.00
ATOM	706	2НВ	ALA	A	50	146.126	3.282	-0.509	1.00	0.00
ATOM	707	ЗНВ	ALA	A	50	145.628	4.775	-1.307	1.00	0.00
ATOM	708	N	GLY	A	51	149.502	3.899	0.645	1.00	0.00

ATOM	709	CA	GLY A	51 150.420	2.895	1.151 1.00 0.00
ATOM	710	С	GLY A	51 149.722	1.838	1.983 1.00 0.00
ATOM	711	0	GLY A	51 149.241	2.120	3.081 1.00 0.00
ATOM	712	Н	GLY A	51 149.545	4.816	0.988 1.00 0.00
ATOM	713	1HA	GLY A	51 150.907	2.415	0.315 1.00 0.00
ATOM	714	2HA	GLY A	51 151.168	3.381	1.759 1.00 0.00
ATOM	715	N	LEU A	52 149.667	0.617	1.461 1.00 0.00
ATOM	716	CA	LEU A	52 149.023	-0.486	2.164 1.00 0.00
ATOM	717	С	LEU A	52 150.052	-1.340	2.897 1.00 0.00
ATOM	718	0	LEU A	52 151.062	-1.744	2.320 1.00 0.00
ATOM	719	CB	LEU A	52 148.231	-1.352	1.183 1.00 0.00
ATOM	720	CG	LEU A	52 146.974	-0.695	0.609 1.00 0.00
ATOM	721	CD1	LEU A	52 146.452	-1.490	-0.579 1.00 0.00
ATOM	722	CD2	LEU A	52 145.903	-0.569	1.680 1.00 0.00
ATOM	723	Н	LEU A	52 150.068	0.453	0.582 1.00 0.00
ATOM	724	HA	LEU A	52 148.342	-0.064	2.889 1.00 0.00
ATOM	725	1HB	LEU A	52 148.882	-1.616	0.362 1.00 0.00
ATOM	726	2HB	LEU A	52 147.935	-2.258	1.692 1.00 0.00
ATOM	727	HG	LEU A	52 147.222	0.298	0.262 1.00 0.00
ATOM	728	1HD1	LEU A	52 145.685	-2.174	-0.246 1.00 0.00
ATOM	729	2HD1	LEU A	52 147.263	-2.047	-1.023 1.00 0.00
ATOM	730	3HD1	LEU A	52 146.037	-0.812	-1.311 1.00 0.00
ATOM	731	1HD2	LEU A	52 145.344	0.343	1.526 1.00 0.00
ATOM	732	2HD2	LEU A	52 146.368	-0.544	2.655 1.00 0.00
ATOM	733	3HD2	LEU A	52 145.234	-1.414	1.622 1.00 0.00
ATOM	734	N	GLU A	53 149.790	-1.612	4.171 1.00 0.00
ATOM	735	CA	GLU A	53 150.694	-2.418	4.983 1.00 0.00
ATOM	736	С	GLU A	53 150.200	-3.859	5.076 1.00 0.00
ATOM	737	0	GLU A	53 149.205	-4.142	5.744 1.00 0.00

ATOM '	738	СВ	GLU A	53	150.826	-1.819	6.384 1.00 0.00	
ATOM '	739	CG	GLU A	53	151.783	-2.584	7.284 1.00 0.00	
ATOM	740	CD	GLU A	53	151.317	-2.629	8.726 1.00 0.00	
ATOM	741	OE1	GLU A	53	151.200	-1.550	9.345 1.00 0.00	
MOTA	742	0E2	GLU A	53	151.071	-3.742	9.236 1.00 0.00	
ATOM	743	Н	GLU A	53	148.969	-1.262	4.575 1.00 0.00	
ATOM	744	HA	GLU A	53	151.662	-2.413	4.505 1.00 0.00	
ATOM	745	1HB	GLU A	53	151.182	-0.804	6.297 1.00 0.00	
ATOM	746	2HB	GLU A	53	149.854	-1.812	6.853 1.00 0.00	
ATOM	747	1HG	GLU A	53	151.870	-3.597	6.919 1.00 0.00	
ATOM	748	2HG	GLU A	53	152.751	-2.105	7.248 1.00 0.00	
ATOM	749	N	LEU A	54	150.903	-4.765	4.405 1.00 0.00	
ATOM	750	CA	LEU A	54	150.537	-6.176	4.412 1.00 0.00	
MOTA	751	С	LEU A	54	150.705	-6.775	5.805 1.00 0.00	
ATOM	752	0	LEU A	54	151.577	-6.360	6.568 1.00 0.00	1
ATOM	753	CB	LEU A	54	151.389	-6.950	3.404 1.00 0.00	ı
ATOM	754	CG	LEU A	54	151.447	-6.342	2.002 1.00 0.00	ŀ
ATOM	755	CD1	LEU A	54	152.766	-6.680	1.327 1.00 0.00)
ATOM	756	CD2	LEU A	54	150.276	-6.829	1.162 1.00 0.00)
ATOM	757	Η .	LEU A	54	151.686	-4.477	3.891 1.00 0.00)
ATOM	758	HA	LEU A	54	149.498	-6.250	4.124 1.00 0.00)
ATOM	759	1HB	LEU A	54	152.396	-7.013	3.790 1.00 0.00)
ATOM	760	2HB	LEU A	54	150.990	-7.951	3.321 1.00 0.00)
ATOM	761	HG	LEU A	54	151.378	-5.266	2.081 1.00 0.00)
ATOM	762	1HD1	LEU A	54	153.136	-7.620	1.710 1.00 0.00)
MOTA	763	2HD1	LEU A	54	153.485	-5.901	1.531 1.00 0.00)
ATOM	764	3HD1	LEU A	54	152.615	-6.761	0.261 1.00 0.00)
ATOM	765	1HD2	LEU A	54	149.455	-7.099	1.811 1.00 0.00)
ATOM	766	2HD2	LEU A	54	150.578	-7.692	0.589 1.00 0.00)

ATOM	767	3HD2	LEU	A	54	149.962	-6.043	0.492	1.00	0.00
ATOM	768	N	GLU	A	55	149.864	-7.752	6.128	1.00	0.00
MOTA	769	CA	GLU	A	55	149.920	-8.408	7.429	1.00	0.00
ATOM	770	C	GLU	A	55	151.075	-9.402	7.489	1.00	0.00
ATOM	771	0	GLU	A	55	151.677	-9.606	8.543	1.00	0.00
ATOM	772	CB	GLU	A	55	148.600	-9.124	7.719	1.00	0.00
ATOM	773	CG	GLU	A	55	147.559	-8.237	8.381	1.00	0.00
ATOM	774	CD	GLU	A	55	146.145	-8.576	7.952	1.00	0.00
ATOM	775	OË1	GLU	A	55	145.281	-7.675	7.989	1.00	0.00
ATOM	776	0E2	GLU	A	55	145.902	-9.743	7.576	1.00	0.00
ATOM	777	H	GLU	A	55	149.191	-8.038	5.477	1.00	0.00
ATOM	778	HA	GLU	A	55	150.077	-7.646	8.178	1.00	0.00
ATOM	779	1HB	GLU	A	55	148.191	-9.491	6.789	1.00	0.00
ATOM	780	2HB	GLU	A	55	148.794	-9.962	8.371	1.00	0.00
ATOM	781	1HG	GLU	A	55	147.631	-8.356	9.452	1.00	0.00
ATOM	782	2HG	GLU	A	55	147.762	-7.209	8.120	1.00	0.00
ATOM	783	N	ASP	A	56	151.380	-10.017	6.351	1.00	0.00
ATOM	784	CA	ASP	A	56	152.464	-10.989	6.275	1.00	0.00
ATOM	785	C	ASP	A	56	153.720	-10.358	5.682	1.00	0.00
ATOM	786	0	ASP	A	56	153.639	-9.461	4.844	1.00	0.00
ATOM	787	CB	ASP	A	56	152.038	-12.194	5.434	1.00	0.00
ATOM	788	CG	ASP	Α	56	152.656	-13.489	5.924	1.00	0.00
ATOM	789	0D1	ASP	Α	56	151.930	-14.502	5.999	1.00	0.00
ATOM	790	0D2	ASP	A	56	153.866	-13.489	6.233	1.00	0.00
ATOM	791	H	ASP	A	56	150.865	-9.811	5.544	1.00	0.00
ATOM	792	HA	ASP	A	56	152.682	-11.322	7.278	1.00	0.00
ATOM	793	1HB	ASP	A	56	150.963	-12.292	5.474	1.00	0.00
ATOM	794	2HB	ASP	A	56	152.343	-12.036	4.409	1.00	0.00
ATOM	795	N	GLU	J A	57	154.880	-10.835	6.122	1.00	0.00

ATOM 79	6 CA	GLU A	57 156.153 -10.318	5.635 1.00 0.00
ATOM 79'	7 C	GLU A	57 156.464 -10.862	4.244 1.00 0.00
ATOM 79	8 0	GLU A	57 157189 -11.845	4.098 1.00 0.00
ATOM 79	9 CB	GLU A	57 157.281 -10.684	6.601 1.00 0.00
ATOM 80	0 CG	GLU A	57 157.059 -10.172	8.016 1.00 0.00
ATOM 80	1 CD	GLU A	57 156.643 -11.271	8.975 1.00 0.00
ATOM 80	2 OE1	GLU A	57 155.525 -11.806	8.817 1.00 0.00
ATOM 80	3 OE2	GLU A	57 157.435 -11.596	9.885 1.00 0.00
ATOM 80	4 H	GLU A	57 154.880 -11.552	6.790 1.00 0.00
ATOM 80	5 HA	GLU A	57 156.074 -9.242	5.579 1.00 0.00
ATOM 80	6 1HB	GLU A	57 157.370 -11.760	6.641 1.00 0.00
ATOM 80	7 2HB	GLU A	57 158.206 -10.268	6.231 1.00 0.00
ATOM 80	8 1HG	GLU A	57 157.977 -9.732	8.374 1.00 0.00
ATOM 80	9 2HG	GLU A	57 156.284 -9.419	7.995 1.00 0.00
ATOM 81	.0 N	CYS A	58 155.911 -10.214	3.224 1.00 0.00
ATOM 81	.1 CA	CYS A	58 156.129 -10.631	1.844 1.00 0.00
ATOM 81	.2 C	CYS A	58 157.505 -10.192	1.354 1.00 0.00
ATOM 81	3 0	CYS A	58 157.859 -9.016	1.437 1.00 0.00
ATOM 81	L4 CB	CYS A	58 155.043 -10.051	0.935 1.00 0.00
ATOM 81	l5 SG	CYS A	58 153.516 -11.020	0.901 1.00 0.00
ATOM 81	16 H	CYS A	58 155.341 -9.436	3.404 1.00 0.00
ATOM 81	17 HA	CYS A	58 156.076 -11.709	1.812 1.00 0.00
ATOM 81	18 1HB	CYS A	58 154.793 -9.057	1.275 1.00 0.00
ATOM 8	19 2HB	CYS A	58 155.420 -9.996	-0.075 1.00 0.00
ATOM 82	20 HG	CYS A	58 153.511 -11.593	1.672 1.00 0.00
ATOM 82	21 N	ALA A	59 158.278 -11.145	0.842 1.00 0.00
ATOM 82	22 CA	ALA A	59 159.615 -10.857	0.338 1.00 0.00
ATOM 82	23 C	ALA A	59 159.552 -10.057	-0.958 1.00 0.00
ATOM 82	24 0	ALA A	59 159.080 -10.551	-1.981 1.00 0.00

ATOM 825	CB	ALA A	59 160.388 -	12.149	0.126 1.00 0.00
ATOM 826	Н	ALA A	59 157.939 -	12.064	0.802 1.00 0.00
ATOM 827	HA	ALA A	59 160.133 -	10.274	1.085 1.00 0.00
ATOM 828	1HB	ALA A	59 159.764 -	12.860	-0.395 1.00 0.00
ATOM 829	2HB	ALA A	59 160.677 -	-12.557	1.084 1.00 0.00
ATOM 830	ЗНВ	ALA A	59 161.272 -	-11.948	-0.460 1.00 0.00
ATOM 831	N	GLY A	60 160.031	-8.818	-0.907 1.00 0.00
ATOM 832	CA	GLY A	60 160.020	-7.970	-2.084 1.00 0.00
ATOM 833	С	GLY A	60 159.553	-6.560	-1.778 1.00 0.00
ATOM 834	0	GLY A	60 159.945	-5.608	-2.455 1.00 0.00
ATOM 835	H	GLY A	60 160.396	-8.478	-0.063 1.00 0.00
ATOM 836	1HA	GLY A	60 161.020	-7.926	-2.491 1.00 0.00
ATOM 837	2HA	GLY A	60 159.362	-8.403	-2.821 1.00 0.00
ATOM 838	N	CYS A	61 158.713	-6.425	-0.757 1.00 0.00
ATOM 839	CA	CYS A	61 158.192	-5.122	-0.363 1.00 0.00
ATOM 840	С	CYS A	61 159.189	-4.380	0.519 1.00 0.00
ATOM 841	0	CYS A	61 160.222	-4.931	0.904 1.00 0.00
ATOM 842	CB	CYS A	61 156.861	-5.283	0.375 1.00 0.00
ATOM 843	SG	CYS A	61 155.608	-6.197	-0.553 1.00 0.00
ATOM 844	H	CYS A	61 158.438	-7.221	-0.257 1.00 0.00
ATOM · 845	HA	CYS A	61 158.026	-4.545	-1.262 1.00 0.00
ATOM 846	1HB	CYS A	61 157.035	-5.812	1.301 1.00 0.00
ATOM 847	2HB	CYS A	61 156.460	-4.305	0.595 1.00 0.00
ATOM 848	HG	CYS A	61 154.811	-5.662	-0.582 1.00 0.00
ATOM 849	N	THR A	62 158.876	-3.128	0.835 1.00 0.00
ATOM 850	CA	THR A	62 159.746	-2.310	1.673 1.00 0.00
ATOM 851	С	THR A	62 159.171	-2.169	3.078 1.00 0.00
ATOM 852	0	THR A	62 158.132	-2.748	3.397 1.00 0.00
ATOM 853	CB	THR A	62 159.940	-0.929	1.047 1.00 0.00

ATOM	854	OG1	THR	A 6	2	158.694	-0.283	0.860	1.00	0.00
ATOM	855	CG2	THR	A 6	2	160.641	-0.973	-0.294	1.00	0.00
ATOM	856	Н	THR	A 6	2	158.040	-2.744	0.498	1.00	0.00
ATOM	857	HA	THR	A 6	2	160.704	-2.805	1.737	1.00	0.00
ATOM	858	HB	THR	A 6	2	160.540	-0.325	1.712	1.00	0.00
ATOM	859	HG1	THR	A 6	2	158.840	0.602	0.518	1.00	0.00
ATOM	860	1HG2	THR	A 6	2	160.440	-1.919	-0.774	1.00	0.00
ATOM	861	2HG2	THR	A 6	2	161.705	-0.862	-0.148	1.00	0.00
ATOM	862	3HG2	THR	A 6	2	160.277	-0.169	-0.917	1.00	0.00
ATOM	863	N	ASP	A 6	3	159.853	-1.394	3.916	1.00	0.00
ATOM	864	CA	ASP	A 6	3	159.410	-1.175	5.289	1.00	0.00
ATOM	865	С	ASP	A 6	3	158.661	0.148	5.414	1.00	0.00
ATOM	866	0	ASP	A 6	3	158.703	0.800	6.457	1.00	0.00
ATOM	867	CB	ASP	A 6	3	160.606	-1.189	6.241	1.00	0.00
ATOM	868	CG	ASP	A 6	3	161.704	-0.240	5.805	1.00	0.00
ATOM	869	OD1	ASP	A 6	3	161.752	0.893	6.328	1.00	0.00
ATOM	870	OD2	ASP	A 6	3	162.517	-0.629	4.939	1.00	0.00
ATOM	871	H	ASP	A 6	3	160.674	-0.958	3.604	1.00	0.00
ATOM	872	HA	ASP	A 6	3	158.741	-1.980	5.553	1.00	0.00
ATOM	873	1HB	ASP	A 6	3	160.276	-0.899	7.227	1.00	0.00
ATOM	874	2HB	ASP	A 6	3	161.013	-2.189	6.282	1.00	0.00
ATOM	875	N	GLY	A 6	4	157.976	0.538	4.344	1.00	0.00
ATOM	876	CA	GLY	A 6	4	157.227	1.781	4.356	1.00	0.00
ATOM	877	С	GLY	A 6	4	157.980	2.918	3.692	1.00	0.00
ATOM	878	0	GLY	A 6	4	158.006	4.037	4.204	1.00	0.00
ATOM	879	Н	GLY	A 6	4	157.978	-0.022	3.540	1.00	0.00
ATOM	880	1HA	GLY	A 6	4	156.292	1.631	3.836	1.00	0.00
ATOM	881	2HA	GLY	A 6	4	157.018	2.053	5.380	1.00	0.00
ATOM	882	N	THR	A 6	5	158.594	2.630	2.549	1.00	0.00

ATOM	883	CA	THR	A	65	159.351	3.636	1.814	1.00	0.00
ATOM	884	С	THR	A	65	159.077	3.536	0.317	1.00	0.00
ATOM	885	0	THR	A	65	159.346	2.511	-0.307	1.00	0.00
ATOM	886	CB	THR	A	65	160.848	3.475	2.081	1.00	0.00
ATOM	887	0G1	THR	A	65	161.266	2.148	1.810	1.00	0.00
ATOM	888	CG2	THR	A	65	161.239	3.795	3.508	1.00	0.00
ATOM	889	H	THR	A	65	158.536	1.720	2. 192	1.00	0.00
ATOM	890	HA	THR	A	65	159.035	4.608	2.162	1.00	0.00
ATOM	891	HB	THR	A	65	161.394	4.143	1.431	1.00	0.00
ATOM	892	HG1	THR	A	65	161.056	1.927	0.900	1.00	0.00
ATOM	893	1HG2	THR	A	65	160.578	4.555	3.900	1.00	0.00
ATOM	894	2HG2	THR	A	65	162.256	4.158	3.530	1.00	0.00
ATOM	895	3HG2	THR	A	65	161.162	2.904	4.112	1.00	0.00
ATOM	896	N	PHE	A	66	158.540	4.610	-0.254	1.00	0.00
ATOM	897	CA	PHE	A	66	158.230	4.645	-1.678	1.00	0.00
ATOM	898	С	PHE	A	66	159.285	5.435	-2.446	1.00	0.00
ATOM	899	0	PHE	A	66	159.348	6.660	-2.351	1.00	0.00
ATOM	900	CB	PHE	A	66	156.848	5.261	-1.905	1.00	0.00
ATOM	901	CG	PHE	A	66	156.258	4.935	-3.248	1.00	0.00
ATOM	902	CD1	PHE	A	66	155.882	5.945	-4.118	1.00	0.00
ATOM	903	CD2	PHE	A	66	156.081	3.618	-3.638	1.00	0.00
ATOM	904	CE1	PHE	A	66	155.340	5.647	-5.354	1.00	0.00
ATOM	905	CE2	PHE	A	66	155.538	3.314	-4.873	1.00	0.00
ATOM	906	CZ	PHE	A	66	155. 167	4.330	-5.732	1.00	0.00
ATOM	907	H	PHE	A	66	158.348	5.398	0.296	1.00	0.00
ATOM	908	HA	PHE	A	66	158. 224	3.628	-2.040	1.00	0.00
ATOM	909	1HB	PHE	A	66	156. 171	4.898	-1.148	1.00	0.00
ATOM	910	2HB	PHE	A	66	156.925	6.337	-1.827	1.00	0.00
ATOM	911	HD1	PHE	A	66	156.018	6.976	-3.824	1.00	0.00

ATOM	912	HD2	PHE A	66	156.370	2.822	-2.968	1.00	0.00
ATOM	913	HE1	PHE A	66	155.051	6.445	-6.023	1.00	0.00
ATOM	914	HE2	PHE A	66	155.404	2.283	-5.166	1.00	0.00
ATOM	915	HZ	PHE A	66	154.743	4.096	-6.696	1.00	0.00
ATOM	916	N	ARG A	67	160.111	4.724	-3.207	1.00	0.00
ATOM	917	CA	ARG A	67	161.164	5.358	-3.991	1.00	0.00
MOTA	918	С	ARG A	4 67	162.128	6.124	-3.090	1.00	0.00
ATOM	919	0	ARG A	A 67	162.576	7.219	-3.430	1.00	0.00
ATOM	920	CB	ARG A	A 67	160.557	6.304	-5.029	1.00	0.00
ATOM	921	CG	ARG A	A 67	159.739	5.593	-6.096	1.00	0.00
ATOM	922	CD	ARG A	A 67	160.131	6.041	-7.495	1.00	0.00
ATOM	923	NE	ARG A	A 67	161.016	5.080	-8.150	1.00	0.00
ATOM	924	CZ	ARG A	A 67	161.773	5.370	-9.206	1.00	0.00
ATOM	925	NH1	ARG A	A 67	161.755	6.590	-9.731	1.00	0.00
ATOM	926	NH2	ARG A	A 67	162.549	4.437	-9.741	1.00	0.00
ATOM	927	H	ARG A	A 67	160.011	3.750	-3.241	1.00	0.00
ATOM	928	HA	ARG A	A 67	161.711	4.580	-4.503	1.00	0.00
ATOM	929	1HB	ARG A	A 67	159.912	7.008	-4.523	1.00	0.00
ATOM	930	2НВ	ARG A	A 67	161.353	6.846	-5.516	1.00	0.00
ATOM	931	1HG	ARG A	A 67	159.904	4.529	-6.012	1.00	0.00
ATOM	932	2HG	ARG A	A 67	158.693	5.810	-5.938	1.00	0.00
MOTA	933	1HD	ARG A	A 67	159.236	6.154	-8.088	1.00	0.00
ATOM	934	2HD	ARG A	A 67	160.638	6.994	-7.425	1.00	0.00
ATOM	935	HE	ARG A	A 67	161.048	4.172	-7.783	1.00	0.00
ATOM	936	1HH1	ARG A	A 67	161.172	7.297	-9.333	1.00	0.00
ATOM	937	2HH1	ARG A	A 67	162.325	6.801	-10.524	1.00	0.00
ATOM	938	1HH2	ARG A	A 67	162.566	3.516	-9.351	1.00	0.00
ATOM	939	2HH2	ARG A	A 67	163.117	4.653	-10.535	1.00	0.00
ATOM	940	N	GLY A	A 68	162.443	5.540	-1.939	1.00	0.00

ATOM	941	CA	GLY A	68 163.351	6.182	-1.006 1.00 0.00
ATOM	942	С	GLY A	68 162.706	7.342	-0.275 1.00 0.00
ATOM	943	0	GLY A	68 163.385	8.287	0.127 1.00 0.00
MOTA	944	H	GLY A	68 162.055	4.667	-1.721 1.00 0.00
ATOM	945	1HA	GLY A	68 163.679	5.452	-0.281 1.00 0.00
ATOM	946	2HA	GLY A	68 164.210	6.546	-1.550 1.00 0.00
ATOM	947	N	THR A	69 161.389	7.272	-0.102 1.00 0.00
ATOM	948	CA	THR A	69 160.651	8.325	0.585 1.00 0.00
ATOM	949	С	THR A	69 159.735	7.739	1.654 1.00 0.00
ATOM	950	0	THR A	69 158.604	7.347	1.369 1.00 0.00
ATOM	951	CB	THR A	69 159.829	9.137	-0.417 1.00 0.00
ATOM	952	0G1	THR A	69 160.590	9.421	-1.578 1.00 0.00
ATOM	953	CG2	THR A	69 159.336	10.454	0.141 1.00 0.00
ATOM	954	Н	THR A	69 160.902	6.493	-0.445 1.00 0.00
ATOM	955	HA	THR A	69 161.368	8.976	1.061 1.00 0.00
ATOM	956	HB	THR A	69 158.965	8.558	-0.711 1.00 0.00
ATOM	957	HG1	THR A	69 161.292	10.038	-1.358 1.00 0.00
ATOM	958	1HG2	THR A	69 159.985	11.252	-0.190 1.00 0.00
ATOM	959	2HG2	THR A	69 159.340	10.412	1.220 1.00 0.00
ATOM	960	3HG2	THR A	69 158.331	10.639	-0.208 1.00 0.00
ATOM	961	N	ARG A	70 160.232	7.682	2.886 1.00 0.00
ATOM	962	CA	ARG A	70 159.457	7.143	3.998 1.00 0.00
ATOM	963	С	ARG A	70 158.310	8.077	4.365 1.00 0.00
ATOM	964	0	ARG A	70 158.529	9.234	4.725 1.00 0.00
ATOM	1 965	CB	ARG A	70 160.359	6.919	5.213 1.00 0.00
ATOM	1 966	CG	ARG A	70 159.662	6.210	6.364 1.00 0.00
ATOM	1 967	CD	ARG A	70 159.925	6.903	7.691 1.00 0.00
MOTA	1 968	NE	ARG A	70 159.851	5.977	8.819 1.00 0.00
ATON	A 969	CZ	ARG A	70 160.254	6.275	10.051 1.00 0.00

ATOM	970	NH1	ARG A	70	160.761	7.472	10.320 1	.00 (0.00
ATOM	971	NH2	ARG A	70	160.151	5.374	11.018 1	.00	0.00
ATOM	972	H	ARG A	70	161.141	8.009	3.050 1	.00	0.00
ATOM	973	HA	ARG A	70	159.048	6.193	3.686 1	.00	0.00
ATOM	974	1HB	ARG A	70	161.208	6.324	4.913 1	.00	0.00
ATOM	975	2HB	ARG A	70	160.709	7.878	5.567	1.00	0.00
ATOM	976	1HG	ARG A	70	158.599	6.203	6.178	1.00	0.00
ATOM	977	2HG	ARG A	70	160.026	5.194	6.421	1.00	0.00
ATOM	978	1HD	ARG A	70	160.912	7.343	7.663	1.00	0.00
ATOM	979	2HD	ARG A	70	159.189	7.682	7.827	1.00	0.00
ATOM	980	HE	ARG A	70	159.482	5.085	8.647	1.00	0.00
ATOM	981	1HH1	ARG A	70	160.841	8.157	9.595	1.00	0.00
ATOM	982	2HH1	ARG A	70	161.062	7.690	11.248	1.00	0.00
ATOM	983	1HH2	ARG A	70	159.771	4.470	10.820	1.00	0.00
ATOM	984	2HH2	ARG A	70	160.454	5.598	11.945	1.00	0.00
ATOM	985	N	TYR A	71	157.086	7.567	4.275	1.00	0.00
ATOM	986	CA	TYR A	71	155.903	8.356	4.599	1.00	0.00
ATOM	987	С	TYR A	71	155.381	8.004	5.988	1.00	0.00
ATOM	988	0	TYR A	71	154.877	8.865	6.710	1.00	0.00
ATOM	989	СВ	TYR A	71	154.808	8.125	3.556	1.00	0.00
ATOM	990	CG	TYR A	73	1 155. 153	8.667	2. 187	1.00	0.00
ATOM	991	CD1	TYR A	73	1 155.218	7.826	1.083	1.00	0.00
ATOM	992	CD2	TYR A	7.	1 155.413	10.018	1.998	1.00	0.00
ATOM	993	CE1	TYR A	7.	1 155.533	8.316	-0.170	1.00	0.00
ATOM	994	CE2	TYR A	7.	1 155.727	10.517	0.748	1.00	0.00
ATOM	1 995	CZ	TYR A	. 7	1 155.786	9.662	-0.332	1.00	0.00
ATOM	1 996	ОН	TYR A	. 7	1 156.099	10.155	-1.578	1.00	0.00
ATOM	1 997	H	TYR A	. 7	1 156.976	6.638	3.983	1.00	0.00
ATOM	1 998	HA	TYR A	7	1 156.187	9.397	4.587	1.00	0.00

ATOM	999	1HB	TYR A	71 154.633	7.064	3.458 1.00 0.00
ATOM	1000	2HB	TYR A	71 153.901	8.607	3.886 1.00 0.00
ATOM	1001	HD1	TYR A	71 155.019	6.773	1.213 1.00 0.00
ATOM	1002	HD2	TYR A	71 155.367	10.685	2.846 1.00 0.00
ATOM	1003	HE1	TYR A	71 155.578	7.646	-1.016 1.00 0.00
ATOM	1004	HE2	TYR A	71 155.926	11.571	0.622 1.00 0.00
ATOM	1005	НН	TYR A	71 155.373	9.983	-2.182 1.00 0.00
ATOM	1006	N	PHE A	72 155.504	6.733	6.357 1.00 0.00
ATOM	1007	CA	PHE A	72 155.045	6.266	7.659 1.00 0.00
ATOM	1008	С	PHE A	72 156.020	5.251	8.248 1.00 0.00
ATOM	1009	0	PHE A	72 157.052	4.949	7.649 1.00 0.00
ATOM	1010	CB	PHE A	72 153.653	5.642	7.538 1.00 0.00
ATOM	1011	CG	PHE A	72 153.543	4.631	6.433 1.00 0.00
ATOM	1012	CD1	PHE A	72 153.294	5.033	5.130 1.00 0.00
ATOM	1013	CD2	PHE A	72 153.689	3.278	6.696 1.00 0.00
ATOM	1014	CE1	PHE A	72 153.193	4.104	4.111 1.00 0.00
ATOM	1015	CE2	PHE A	72 153.588	2.345	5.682 1.00 0.00
ATOM	1016	CZ	PHE A	72 153.340	2.759	4.388 1.00 0.00
ATOM	1017	H	PHE A	72 155.914	6.094	5.737 1.00 0.00
ATOM	1018	HA	PHE A	72 154.990	7.120	8.317 1.00 0.00
ATOM	1019	1HB	PHE A	72 153.406	5.147	8.465 1.00 0.00
ATOM	1020	2HB	PHE A	72 152.931	6.422	7.349 1.00 0.00
ATOM	1021	HD1	PHE A	72 153.179	6.084	4.913 1.00 0.00
ATOM	1022	HD2	PHE A	72 153.884	2.954	7.708 1.00 0.00
ATOM	1023	HE1	PHE A	72 152.997	4.431	3.101 1.00 0.00
ATOM	1024	HE2	PHE A	72 153.705	1.294	5.901 1.00 0.00
ATOM	1025	HZ	PHE A	72 153.262	2.032	3.593 1.00 0.00
ATOM	1026	N	THR A	73 155.687	4.731	9.424 1.00 0.00
ATOM	1027	CA	THR A	73 156.534	3.750	10.094 1.00 0.00

ATOM	1028	С	THR	A	73	155.833	2.399	10.188	1.00	0.00
ATOM	1029	0	THR	A	73	154.813	2.263	10.862	1.00	0.00
ATOM	1030	CB	THR	A	73	156.909	4.241	11.493	1.00	0.00
ATOM	1031	0G1	THR	A	73	157.700	3.278	12.167	1.00	0.00
ATOM	1032	CG2	THR	A	73	155.709	4.539	12.365	1.00	0.00
ATOM	1033	H	THR	A	73	154.851	5.012	9.852	1.00	0.00
ATOM	1034	HA	THR	A	73	157.434	3.636	9.510	1.00	0.00
ATOM	1035	HB	THR	A	73	157.486	5.150	11.401	1.00	0.00
ATOM	1036	HG1	THR	A	73	158.049	3.660	12.976	1.00	0.00
ATOM	1037	1HG2	THR	A	73	155.202	3.617	12.608	1.00	0.00
ATOM	1038	2HG2	THR	A	73	155.032	5.192	11.834	1.00	0.00
ATOM	1039	3HG2	THR	A	73	156.035	5.021	13.274	1.00	0.00
ATOM	1040	N	CYS	A	74	156.388	1.402	9.505	1.00	0.00
ATOM	1041	CA	CYS	A	74	155.816	0.060	9.512	1.00	0.00
ATOM	1042	С	CYS	A	74	156.913	-0.999	9.554	1.00	0.00
ATOM	1043	0	CYS	A	74	158.096	-0.687	9.422	1.00	0.00
ATOM	1044	CB	CYS	A	74	154.939	-0.148	8.276	1.00	0.00
ATOM	1045	SG	CYS	A	74	153.237	0.427	8.475	1.00	0.00
ATOM	1046	Н	CYS	A	74	157. 201	1.572	8.985	1.00	0.00
ATOM	1047	HA	CYS	A	74	155. 205	-0.035	10.396	1.00	0.00
ATOM	1048	1HB	CYS	A	74	155.370	0.387	7.443	1.00	0.00
ATOM	1049	2HB	CYS	A	74	154.905	-1.202	8.042	1.00	0.00
ATOM	1050	HG	CYS	A	74	152.753	0.204	7.676	1.00	0.00
ATOM	1051	N	ALA	A	75	156.512	-2.252	9.739	1.00	0.00
ATOM	1052	CA	ALA	A	75	157.461	-3.357	9.799	1.00	0.00
ATOM	1053	С	ALA	A	75	158.197	-3.521	8.474	1.00	0.00
ATOM	1054	0	ALA	A	75	157.960	-2.774	7.524	1.00	0.00
ATOM	1055	CB	ALA	A	75	156.745	-4.647	10.170	1.00	0.00
ATOM	1056	H	ALA	. A	75	155.554	-2.438	9.837	1.00	0.00

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ATOM 1057
           HA
                ALA A 75 158.180
                                   -3.137
                                            10.574 1.00 0.00
ATOM 1058
           1HB
                ALA A
                                   -4.796
                        75 156.801
                                            11.238 1.00 0.00
ATOM 1059
           2HB
                ALA A
                       75 157.215
                                   -5.478
                                             9.665 1.00 0.00
ATOM 1060
           3HB
                ALA A
                       75 155.709
                                    -4.583
                                             9.869 1.00 0.00
ATOM 1061
           N
                LEU A
                        76 159.091
                                   -4.502
                                             8.416 1.00 0.00
ATOM 1062
           CA
                LEU A
                       76 159.862
                                    -4.764
                                             7.206 1.00 0.00
ATOM 1063
           С
                LEU A
                                    -5.793
                       76 159.161
                                             6.326 1.00 0.00
ATOM 1064
           0
                LEU A
                       76 158.560
                                    -6.745
                                             6.825 1.00 0.00
ATOM 1065
                       76 161.265
           CB
                LEU A
                                   -5.256
                                             7.566 1.00 0.00
ATOM 1066
           CG
                LEU A
                       76 162.272
                                   -4.153
                                             7.899 1.00 0.00
ATOM 1067
           CD1
                LEU A
                       76 163.265
                                    -4.636
                                             8.945 1.00 0.00
ATOM 1068
           CD2
                LEU A
                       76 162.999
                                   -3.700
                                             6.642 1.00 0.00
ATOM 1069
           H
                LEU A
                       76 159.236
                                    -5.064
                                             9.206 1.00 0.00
ATOM 1070
           HA
                LEU A
                       76 159.945
                                    -3.836
                                             6.659 1.00 0.00
ATOM 1071
           1HB
                LEU A
                       76 161.185
                                    -5.912
                                             8.421 1.00 0.00
ATOM 1072
           2HB
                LEU A
                       76 161.650
                                    -5.823
                                             6.733 1.00 0.00
ATOM 1073
           HG
                LEU A
                       76 161.745
                                    -3.304
                                             8.307 1.00 0.00
ATOM 1074
           1HD1 LEU A
                       76 164.124
                                    -5.069
                                             8.454 1.00 0.00
ATOM 1075
           2HD1 LEU A
                       76 162.795
                                   -5.380
                                             9.572 1.00 0.00
ATOM 1076
           3HD1 LEU A
                       76 163.582
                                    -3.801
                                             9.554 1.00 0.00
ATOM 1077
           1HD2 LEU A 76 162.395
                                    -3.926
                                             5.775 1.00 0.00
ATOM 1078
           2HD2 LEU A
                       76 163.945
                                    -4.216
                                             6.567 1.00 0.00
ATOM 1079
           3HD2 LEU A
                       76 163.173
                                   -2.636
                                             6.690 1.00 0.00
ATOM 1080
           N
                LYS A
                       77 159.241
                                   -5.595
                                             5.014 1.00 0.00
ATOM .1081
           CA
                LYS A
                       77 158.615
                                    -6.506
                                             4.063 1.00 0.00
ATOM 1082
           C
                LYS A
                       77 157.102
                                   -6.545
                                             4.261 1.00 0.00
ATOM 1083
           0
                LYS A
                       77 156.473
                                    -7.591
                                             4.107 1.00 0.00
ATOM 1084
           CB
                LYS A
                       77 159.196
                                    -7.914
                                             4.213 1.00 0.00
ATOM 1085
           CG
                LYS A
                       77 160.695 -7.980
                                             3.971 1.00 0.00
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ATOM 1	086	CD	LYS A	77	161.038	-7.712	2.515 1.00 0.00
ATOM 1	087	CE	LYS A	77	162.514	-7.398	2.339 1.00 0.00
ATOM 1	.088	NZ	LYS A	77	163.360	-8.619	2.449 1.00 0.00
ATOM 1	.089	Н	LYS A	77	159.734	-4.817	4.677 1.00 0.00
ATOM 1	.090	HA	LYS A	77	158.826	-6.143	3.069 1.00 0.00
ATOM 1	.091	1HB	LYS A	77	158.998	-8.268	5.213 1.00 0.00
ATOM 1	.092	2HB	LYS A	77	158.709	-8.569	3.505 1.00 0.00
ATOM 1	1093	1HG	LYS A	77	161.183	-7.239	4.587 1.00 0.00
ATOM 1	1094	2HG	LYS A	77	161.050	-8.965	4.240 1.00 0.00
ATOM 1	1095	1HD	LYS A	77	160.794	-8.586	1.931 1.00 0.00
ATOM I	1096	2HD	LYS A	77	160.456	-6.871	2.167 1.00 0.00
ATOM I	1097	1HE	LYS A	77	162.662	-6.956	1.364 1.00 0.00
ATOM I	1098	2HE	LYS A	77	162.813	-6.693	3.101 1.00 0.00
ATOM :	1099	1HZ	LYS A	77	162.813	-9.459	2.167 1.00 0.00
ATOM :	1100	2HZ	LYS A	77	163.682	-8.743	3.430 1.00 0.00
ATOM	1101	3HZ	LYS A	77	164.191	-8.536	1.831 1.00 0.00
ATOM	1102	N	LYS A	78	3 156.526	-5.398	4.602 1.00 0.00
ATOM	1103	CA	LYS A	78	3 155.087	-5.300	4.821 1.00 0.00
ATOM	1104	С	LYS A	78	3 154.565	-3.928	4.407 1.00 0.00
ATOM	1105	0	LYS A	78	3 153.672	-3.373	5.047 1.00 0.00
ATOM	1106	CB	LYS A	78	3 154.754	-5.564	6.291 1.00 0.00
ATOM	1107	CG	LYS A	78	8 155.276	-6.897	6.803 1.00 0.00
ATOM	1108	CD	LYS A	. 78	8 155.037	-7.051	8.296 1.00 0.00
ATOM	1109	CE	LYS A	. 78	8 153.738	-7.786	8.580 1.00 0.00
ATOM	1110	NZ	LYS A	. 78	8 153.489	-7.930	10.040 1.00 0.00
ATOM	1111	Н	LYS A	. 73	8 157.081	-4.597	4.709 1.00 0.00
ATOM	1112	HA	LYS A	. 7	8 154.609	-6.053	4.212 1.00 0.00
ATOM	1113	1HB	LYS A	. 7	8 155.187	-4.778	6.892 1.00 0.00
ATOM	1114	2HB	LYS A	7	8 153.682	-5.551	6.413 1.00 0.00

ATOM	1115	1HG	LYS A	78 154.768	-7.695	6.283 1.00 0.00
ATOM	1116	2HG	LYS A	78 156.337	-6.956	6.609 1.00 0.00
ATOM	1117	1HD	LYS A	78 155.857	-7.608	8.726 1.00 0.00
ATOM	1118	2HD	LYS A	78 154.992	-6.070	8.746 1.00 0.00
ATOM	1119	1HE	LYS A	78 152.923	-7.233	8.138 1.00 0.00
ATOM	1120	2HE	LYS A	78 153.790	-8.768	8.132 1.00 0.00
ATOM	1121	1HZ	LYS A	78 152.472	-7.847	10.240 1.00 0.00
ATOM	1122	2HZ	LYS A	78 153.995	-7.189	10.566 1.00 0.00
ATOM	1123	3HZ	LYS A	78 153.820	-8.860	10.369 1.00 0.00
ATOM	1124	N	ALA A	79 155.130	-3.385	3.333 1.00 0.00
ATOM	1125	CA	ALA A	79 154.722	-2.078	2.834 1.00 0.00
ATOM	1126	С	ALA A	79 154.661	-2.066	1.311 1.00 0.00
ATOM	1127	0	ALA A	79 155.692	-2.045	0.638 1.00 0.00
ATOM	1128	CB	ALA A	79 155.673	-1.002	3.334 1.00 0.00
ATOM	1129	Н	ALA A	79 155.838	-3.876	2.865 1.00 0.00
ATOM	1130	HA	ALA A	79 153.737	-1.864	3.225 1.00 0.00
ATOM	1131	1HB	ALA A	79 156.179	-1.352	4.222 1.00 0.00
ATOM	1132	2HB	ALA A	79 155.115	-0.107	3.567 1.00 0.00
ATOM	1133	ЗНВ	ALA A	79 156.402	-0.782	2.568 1.00 0.00
ATOM	1134	N	LEU A	80 153.445	-2.077	0.772 1.00 0.00
ATOM	1135	CA	LEU A	80 153.250	-2.068	-0.674 1.00 0.00
.ATOM	1136	С	LEU A	80 152.372	-0.893	-1.095 1.00 0.00
ATOM	1137	0	LEU A	80 151.191	-0.835	-0.752 1.00 0.00
ATOM	1138	CB	LEU A	80 152.617	-3.383	-1.131 1.00 0.00
ATOM	1139	CG	LEU A	80 152.301	-3.464	-2.626 1.00 0.00
ATOM	1140	CD1	LEU A	80 153.582	-3.431	-3.445 1.00 0.00
ATOM	1141	CD2	LEU A	80 151.501	-4.721	-2.933 1.00 0.00
ATOM	1142	Н	LEU A	80 152.662	-2.093	1.360 1.00 0.00
ATOM	1143	HA	LEU A	80 154.218	-1.962	-1.139 1.00 0.00

ATOM	1144	1HB	LEU	A	80	153. 294	-4.189	-0.883	1.00	0.00
ATOM	1145	2HB	LEU	A	80	151.698	-3.526	-0.585	1.00	0.00
ATOM	1146	HG	LEU	A	80	151.704	-2.608	-2.907	1.00	0.00
ATOM	1147	1HD1	LEU	A	80	153.460	-4.038	-4.330	1.00	0.00
ATOM	1148	2HD1	LEU	A	80	154.399	-3.819	-2.852	1.00	0.00
ATOM	1149	3HD1	LEU	A	80	153.799	-2.413	-3.734	1.00	0.00
ATOM	1150	1HD2	LEU	A	80	151.751	-5.074	-3.924	1.00	0.00
ATOM	1151	2HD2	LEU	A	80	150.446	-4.496	-2.887	1.00	0.00
ATOM	1152	3HD2	LEU	A	80	151.739	-5.485	-2.209	1.00	0.00
ATOM	1153	N	PHE	A	81	152.956	0.039	-1.839	1.00	0.00
ATOM	1154	CA	PHE	A	81	152.227	1.212	-2.307	1.00	0.00
ATOM	1155	C	PHE	A	81	151.468	0.904	-3.594	1.00	0.00
ATOM	1156	0	PHE	A	81	151.964	0.183	-4.460	1.00	0.00
ATOM	1157	CB	PHE	A	81	153.188	2.379	-2.536	1.00	0.00
ATOM	1158	CG	PHE	A	81	153.792	2.916	-1.270	1.00	0.00
ATOM	1159	CD1	PHE	A	81	154.989	2.410	-0.788	1.00	0.00
ATOM	1160	CD2	PHE	A	81	153.164	3.928	-0.561	1.00	0.00
ATOM	1161	CE1	PHE	A	81	155.547	2.902	0.377	1.00	0.00
ATOM	1162	CE2	PHE	A	81	153.717	4.425	0.603	1.00	0.00
ATOM	1163	CZ	PHE	A	81	154.910	3.911	1.073	1.00	0.00
ATOM	1164	H	PHE	A	81	153.900	-0.064	-2.079	1.00	0.00
ATOM	1165	HA	PHE	A	81	151.516	1.487	-1.543	1.00	0.00
ATOM	1166	1HB	PHE	A	81	153.995	2.052	-3.175	1.00	0.00
ATOM	1167	2HB	PHE	A	81	152.657	3.185	-3.020	1.00	0.00
ATOM	1168	HD1	PHE	A	81	155.488	1.622	-1.332	1.00	0.00
ATOM	1169	HD2	PHE	A	81	152.231	4.330	-0.928	1.00	0.00
ATOM	1170	HE1	PHE	A	81	156.480	2.499	0.742	1.00	0.00
ATOM	1171	HE2	PHE	A	81	153.216	5.213	1.146	1.00	0.00
ATOM	1172	HZ	PHE	A	81	155.344	4.297	1.983	1.00	0.00

ATOM 1173	N	VAL A	82 150.265	1.454	-3.713 1.00 0.00
ATOM 1174	CA	VAL A	82 149.439	1.238	-4.894 1.00 0.00
ATOM 1175	С	VAL A	82 148.475	2.400	-5.112 1.00 0.00
ATOM 1176	0	VAL A	82 148.288	3.238	-4.230 1.00 0.00
ATOM 1177	CB	VAL A	82 148.632	-0.069	-4.784 1.00 0.00
ATOM 1178	CG1	VAL A	82 149.555	-1.276	-4.862 1.00 0.00
ATOM 1179	CG2	VAL A	82 147.821	-0.090	-3.498 1.00 0.00
ATOM 1180	H	VAL A	82 149.925	2.020	-2.988 1.00 0.00
ATOM 1181	HA	VAL A	82 150.095	1.161	-5.750 1.00 0.00
ATOM 1182	HB	VAL A	82 147.946	-0.116	-5.618 1.00 0.00
ATOM 1183	1HG1	VAL A	82 150.262	-1.240	-4.048 1.00 0.00
ATOM 1184	2HG1	VAL A	82 150.086	-1.262	-5.802 1.00 0.00
ATOM 1185	3HG1	VAL A	82 148.970	-2.181	-4.792 1.00 0.00
ATOM 1186	1HG2	2 VAL A	82 147.469	0.907	-3.279 1.00 0.00
ATOM 1187	2HG2	2 VAL A	82 148.442	-0.439	-2.686 1.00 0.00
ATOM 1188	3HG	2 VAL A	82 146.976	-0.752	-3.616 1.00 0.00
ATOM 1189	N	LYS A	83 147.867	2.443	-6.292 1.00 0.00
ATOM 1190	CA	LYS A	83 146.922	3.502	-6.627 1.00 0.00
ATOM 1191	С	LYS A	83 145.691	3.437	-5.732 1.00 0.00
ATOM 1192	0	LYS A	83 145.092	2.376	-5.556 1.00 0.00
ATOM 1193	CB	LYS A	83 146.505	3.398	-8.096 1.00 0.00
ATOM 1194	CG	LYS A	83 147.637	3.674	-9.071 1.00 0.00
ATOM 1195	CD	LYS A	83 147.323	3.133	-10.456 1.00 0.00
ATOM 1196	CE	LYS A	83 148.071	3.897	-11.536 1.00 0.00
ATOM 1197	NZ	LYS A	83 149.309	3. 187	-11.962 1.00 0.00
ATOM 1198	Н	LYS A	83 148.058	1.747	-6.955 1.00 0.00
ATOM 1199	HA	LYS A	83 147.415	4.449	-6.470 1.00 0.00
ATOM 1200	1HE	B LYS A	83 146.134	2.401	-8.281 1.00 0.00
ATOM 1201	2HF	B LYS A	83 145.714	4.108	-8.285 1.00 0.00

ATOM 1202	1HG	LYS A	83 147.789	4.740	-9.138	1.00 (0.00
ATOM 1203	2HG	LYS A	83 148.538	3.203	-8.705	1.00 (0.00
ATOM 1204	1HD	LYS A	83 147.611	2.093 -	10.500	1.00 (0.00
ATOM 1205	2HD	LYS A	83 146.261	3.221 -	10.634	1.00 (0.00
ATOM 1206	1HE	LYS A	83 147.422	4.015 -	12.391	1.00 (0.00
ATOM 1207	2HE	LYS A	83 148.339	4.871 -	11.150	1.00 (0.00
ATOM 1208	1HZ	LYS A	83 149.120	2.620 -	12.814	1.00	0.00
ATOM 1209	2HZ	LYS A	83 149.638	2.556 -	11.205	1.00	0.00
ATOM 1210	3HZ	LYS A	83 150.060	3.875 -	12.176	1.00	0.00
ATOM 1211	N	LEU A	84 145.318	4.580	-5.169	1.00	0.00
ATOM 1212	CA	LEU A	84 144.158	4.661	-4.291	1.00	0.00
ATOM 1213	С	LEU A	84 142.865	4.491	-5.082	1.00	0.00
ATOM 1214	0	LEU A	84 141.879	3.961	-4.572	1.00	0.00
ATOM 1215	CB	LEU A	84 144.151	6.002	-3.554	1.00	0.00
ATOM 1216	CG	LEU A	84 142.910	6.266	-2.698	1.00	0.00
ATOM 1217	CD1	LEU A	84 142.912	5.375	-1.467	1.00	0.00
ATOM 1218	CD2	LEU A	84 142.843	7.733	-2.298	1.00	0.00
ATOM 1219	H	LEU A	84 145.837	5.392	-5.350	1.00	0.00
ATOM 1220	HA	LEU A	84 144.233	3.863	-3.568	1.00	0.00
ATOM 1221	1HB	LEU A	84 145.020	6.041	-2.914	1.00	0.00
ATOM 1222	2HB	LEU A	84 144.229	6.791	-4.287	1.00	0.00
ATOM 1223	HG	LEU A	84 142.027	6.036	-3.275	1.00	0.00
ATOM 1224	1HD	1 LEU A	84 143.333	4.414	-1.719	1.00	0.00
ATOM 1225	2HD	1 LEU A	84 141.899	5.244	-1.115	1.00	0.00
ATOM 1226	3HD	1 LEU A	84 143.505	5.835	-0.689	1.00	0.00
ATOM 1227	1HD	2 LEU A	84 142.606	8.332	-3.164	1.00	0.00
ATOM 1228	2HD	2 LEU A	84 143.798	8.040	-1.898	1.00	0.00
ATOM 1229	3HD	2 LEU A	84 142.078	7.866	-1.547	1.00	0.00
ATOM 1230	N	LYS A	85 142.879	4.942	-6.332	1.00	0.00

ATOM	1231	CA	LYS A	85 141.709	4.839	-7.195	1.00	0.00
ATOM	1232	С	LYS A	85 141.357	3.378	-7.464	1.00	0.00
ATOM	1233	0	LYS A	85 140.198	3.045	-7.713	1.00	0.00
ATOM	1234	СВ	LYS A	85 141.956	5.567	-8.517	1.00	0.00
ATOM	1235	CG	LYS A	85 143.160	5.042	-9.284	1.00	0.00
ATOM	1236	CD	LYS A	85 144.320	6.026	-9.247	1.00	0.00
ATOM	1237	CE	LYS A	85 144.051	7.236	-10.128	1.00	0.00
ATOM	1238	NZ	LYS A	85 144.712	7.112	-11.457	1.00	0.00
ATOM	1239	H	LYS A	85 143.696	5.354	-6.683	1.00	0.00
ATOM	1240	HA	LYS A	85 140.880	5.308	-6.686	1.00	0.00
ATOM	1241	1HB	LYS A	85 141.083	5.459	-9.143	1.00	0.00
ATOM	1242	2HB	LYS A	85 142.114	6.616	-8.313	1.00	0.00
ATOM	1243	1HG	LYS A	85 143.479	4.111	-8.842	1.00	0.00
ATOM	1244	2HG	LYS A	85 142.875	4.876	-10.312	1.00	0.00
ATOM	1245	1HD	LYS A	85 144.464	6.360	-8.231	1.00	0.00
ATOM	1246	2HD	LYS A	85 145.212	5.528	-9.596	1.00	0.00
ATOM	1247	1HE	LYS A	85 142.985	7.331	-10.273	1.00	0.00
ATOM	1248	2HE	LYS A	85 144.426	8.119	-9.630	1.00	0.00
ATOM	1249	1HZ	LYS A	85 145.717	6.869	-11.335	1.00	0.00
ATOM	1250	2HZ	LYS A	85 144.645	8.011	-11.975	1.00	0.00
ATOM	1251	ЗНΖ	LYS A	85 144.251	6.367	-12.017	1.00	0.00
ATOM	1252	N	SER A	86 142.363	2.511	-7.412	1.00	0.00
ATOM	1253	CA	SER A	86 142.158	1.087	-7.651	1.00	0.00
ATOM	1254	С	SER A	86 142.188	0.306	-6.341	1.00	0.00
ATOM	1255	0	SER A	86 142.608	-0.850	-6.306	1.00	0.00
ATOM	1256	CB	SER A	86 143.227	0.549	-8.603	1.00	0.00
ATOM	1257	OG	SER A	86 143.165	1.200	-9.861	1.00	0.00
ATOM	1258	H	SER A	86 143.265	2.837	-7.209	1.00	0.00
ATOM	1259	HA	SER A	86 141.187	0.965	-8.107	1.00	0.00

ATOM :	1260	1HB	SER A	86 144.204	0.714	-8.176 1.00 0.00
ATOM	1261	2HB	SER A	86 143.073	-0.510	-8.752 1.00 0.00
MOTA	1262	HG	SER A	86 142.249	1.269	-10.141 1.00 0.00
MOTA	1263	N	CYS A	87 141.740	0.946	-5.266 1.00 0.00
ATOM	1264	CA	CYS A	87 141.714	0.312	-3.953 1.00 0.00
MOTA	1265	С	CYS A	87 140.288	-0.056	-3.555 1.00 0.00
ATOM	1266	0	CYS A	87 139.363	0.738	-3.721 1.00 0.00
ATOM	1267	CB	CYS A	87 142.326	1.241	-2.903 1.00 0.00
ATOM	1268	SG	CYS A	87 144.133	1.202	-2.848 1.00 0.00
ATOM	1269	Н	CYS A	87 141.417	1.868	-5.358 1.00 0.00
ATOM	1270	HA	CYS A	87 142.303	-0.591	-4.011 1.00 0.00
ATOM	1271	1HB	CYS A	87 142.027	2.256	-3.113 1.00 0.00
ATOM	1272	2HB	CYS A	87 141.961	0.958	-1.927 1.00 0.00
ATOM	1273	HG	CYS A	87 144.438	0.603	-3.533 1.00 0.00
ATOM	1274	N	ARG A	88 140.119	-1.265	-3.030 1.00 0.00
ATOM	1275	CA	ARG A	88 138.806	-1.737	-2.610 1.00 0.00
ATOM	1276	С	ARG A	88 138.683	-1.722	-1.085 1.00 0.00
ATOM	1277	0	ARG A	88 139.522	-2.287	-0.385 1.00 0.00
ATOM	1278	СВ	ARG A	88 138.558	-3.152	-3.140 1.00 0.00
ATOM	1279	CG	ARG A	88 137.514	-3.212	-4.244 1.00 0.00
ATOM	1280	CD	ARG A	88 136.107	-3.286	-3.675 1.00 0.00
ATOM	1281	NE	ARG A	88 135.160	-3.860	-4.628 1.00 0.00
ATOM	1282	CZ	ARG A	88 133.845	-3.915	-4.425 1.00 0.00
ATOM	1283	NH1	ARG A	88 133.319	-3.434	-3.305 1.00 0.00
ATOM	1284	NH2	ARG A	88 133.055	-4.454	-5.343 1.00 0.00
ATOM	1285	H	ARG A	88 140.895	-1.853	-2.924 1.00 0.00
ATOM	1286	HA	ARG A	88 138.067	-1.072	-3.029 1.00 0.00
MOTA	1287	1HB	ARG A	88 139.485	-3.544	-3.530 1.00 0.00
ATOM	1288	2HB	ARG A	88 138.226	-3.779	-2.326 1.00 0.00

ATOM	1289	1HG	ARG A	88 <i>I</i>	137.598	-2.327	-4.856	1.00	0.00
ATOM	1290	2HG	ARG A	88 A	137.695	-4.089	-4.849	1.00	0.00
ATOM	1291	1HD	ARG A	88 <i>I</i>	136.123	-3.898	-2.786	1.00	0.00
ATOM	1292	2HD	ARG A	88 A	135.784	-2.288	-3.417	1.00	0.00
ATOM	1293	HE	ARG A	88 A	135.522	-4.222	-5.463	1.00	0.00
ATOM	1294	1HH1	ARG A	A 88	133.909	-3.027	-2.609	1.00	0.00
ATOM	1295	2HH1	ARG A	88 A	132.330	-3.480	-3.158	1.00	0.00
ATOM	1296	1HH2	ARG A	A 88	133.446	-4.818	-6.189	1.00	0.00
MOTA	1297	2HH2	ARG A	A 88	132.067	-4.496	-5.191	1.00	0.00
ATOM	1298	N	PRO A	A 89	137.633	-1.072	-0.548	1.00	0.00
ATOM	1299	CA	PRO A	A 89	137.417	-0.994	0.901	1.00	0.00
ATOM	1300	С	PRO A	A 89	137.404	-2.369	1.559	1.00	0.00
ATOM	1301	0	PRO A	A 89	136.670	-3.264	1.136	1.00	0.00
ATOM	1302	CB	PRO A	A 89	136.041	-0.332	1.024	1.00	0.00
ATOM	1303	CG	PRO A	A 89	135.870	0.429	-0.245	1.00	0.00
ATOM	1304	CD	PRO A	A 89	136.580	-0.368	-1.303	1.00	0.00
ATOM	1305	HA	PRO A	A 89	138.161	-0.375	1.379	1.00	0.00
ATOM	1306	1HB	PRO A	A 89	135.282	-1.091	1.136	1.00	0.00
ATOM	1307	2HB	PRO A	A 89	136.031	0.326	1.881	1.00	0.00
ATOM	1308	1HG	PRO A	A 89	134.819	0.515	-0.482	1.00	0.00
ATOM	1309	2HG	PRO A	A 89	136.316	1.408	-0.150	1.00	0.00
ATOM	1310	1HD	PRO .	A 89	135.902	-1.070	-1.765	1.00	0.00
ATOM	1311	2HD	PRO .	A 89	137.011	0.289	-2.044	1.00	0.00
ATOM	1312	N	ASP .	A 90	138.220	-2.533	2.594	1.00	0.00
ATOM	1313	CA	ASP .	A 90	138.302	-3.801	3.309	1.00	0.00
ATOM	1314	С	ASP .	A 90	137.533	-3.735	4.624	1.00	0.00
ATOM	1315	0	ASP .	A 90	138.011	-3.166	5.606	1.00	0.00
ATOM	1316	CB	ASP .	A 90	139.763	-4.165	3.578	1.00	0.00
ATOM	1317	CG	ASP .	A 90	139.987	-5.664	3.624	1.00	0.00

ATOM	1318	OD1	ASP A	90 140.017	-6.226	4.739 1.00 0.00
ATOM	1319	OD2	ASP A	90 140.130	-6.275	2.544 1.00 0.00
ATOM	1320	Н	ASP A	90 138.781	-1.783	2.885 1.00 0.00
ATOM	1321	HA	ASP A	90 137.860	-4.562	2.685 1.00 0.00
ATOM	1322	1HB	ASP A	90 140.381	-3.751	2.796 1.00 0.00
ATOM	1323	2HB	ASP A	90 140.063	-3.746	4.527 1.00 0.00
ATOM	1324	N	SER A	91 136.339	-4.319	4.637 1.00 0.00
ATOM	1325	CA	SER A	91 135.506	-4.326	5.834 1.00 0.00
ATOM	1326	C .	SER A	91 135.639	-5.649	6.582 1.00 0.00
ATOM	1327	0	SER A	91 134.700	-6.099	7.237 1.00 0.00
ATOM	1328	CB	SER A	91 134.042	-4.084	5.463 1.00 0.00
ATOM	1329	OG	SER A	91 133.352	-3.424	6.510 1.00 0.00
ATOM	1330	Н	SER A	91 136.012	-4.757	3.824 1.00 0.00
ATOM	1331	HA	SER A	91 135.842	-3.527	6.476 1.00 0.00
ATOM	1332	1HB	SER A	91 133.994	-3.472	4.575 1.00 0.00
ATOM	1333	2HB	SER A	91 133.560	-5.032	5.272 1.00 0.00
ATOM	1334	HG	SER A	91 133.254	-4.021	7.255 1.00 0.00
ATOM	1335	N	ARG A	92 136.812	-6.266	6.479 1.00 0.00
ATOM	1336	CA	ARG A	92 137.067	-7.537	7.147 1.00 0.00
ATOM	1337	С	ARG A	92 137.066	-7.367	8.663 1.00 0.00
ATOM	1338	0	ARG A	92 136.736	-8.295	9.401 1.00 0.00
ATOM	1339	CB	ARG A	92 138.406	-8.118	6.689 1.00 0.00
ATOM	1340	CG	ARG A	92 138.307	-8.944	5.417 1.00 0.00
ATOM	1341	CD	ARG A	92 137.309	-10.081	5.568 1.00 0.00
ATOM	1342	NE	ARG A	92 136.010	-9.750	4.987 1.00 0.00
ATOM	1343	CZ	ARG A	92 134.911	-10.481	5.164 1.00 0.00
ATOM	1344	NH1	ARG A	92 134.949	-11.582	5.903 1.00 0.00
ATOM	1345	NH2	ARG A	92 133.771	-10.109	4.598 1.00 0.00
ATOM	1346	H	ARG A	92 137.522	-5.857	5.942 1.00 0.00

ATOM	1347	HA	ARG A	92	136.276	-8.219	6.873 1.00 0.00
ATOM	1348	1HB	ARG A	92	139.095	-7.305	6.511 1.00 0.00
ATOM	1349	2HB	ARG A	92	138.800	-8.748	7.472 1.00 0.00
ATOM	1350	1HG	ARG A	92	137.988	-8.305	4.607 1.00 0.00
ATOM	1351	2HG	ARG A	92	139.279	-9.357	5.191 1.00 0.00
ATOM	1352	1HD	ARG A	92	137.701	-10.956	5.072 1.00 0.00
ATOM	1353	2HD	ARG A	92	137.180	-10.293	6.619 1.00 0.00
ATOM	1354	ΗE	ARG A	92	135.953	-8.941	4.437 1.00 0.00
ATOM	1355	1HH1	ARG A	92	135.807	-11.868	6.332 1.00 0.00
ATOM	1356	2HH1	ARG A	92	134.121	-12.127	6.032 1.00 0.00
ATOM	1357	1HH2	ARG A	92	133.736	-9.280	4.040 1.00 0.00
ATOM	1358	2HH2	ARG A	92	132.945	-10.658	4.730 1.00 0.00
ATOM	1359	N	PHE A	93	137.439	-6.176	9.122 1.00 0.00
ATOM	1360	CA	PHE A	93	137.481	-5.887	10.550 1.00 0.00
ATOM	1361	С	PHE A	93	136.780	-4.569	10.863 1.00 0.00
ATOM	1362	0 -	PHE A	93	137. 137	-3.875	11.815 1.00 0.00
ATOM	1363	CB	PHE A	93	138.930	-5.835	11.037 1.00 0.00
ATOM	1364	CG	PHE A	93	139.691	-7.106	10.797 1.00 0.00
ATOM	1365	CD1	PHE A	93	140.083	-7.907	11.858 1.00 0.00
ATOM	1366	CD2	PHE A	93	140.013	-7.503	9.508 1.00 0.00
ATOM	1367	CE1	PHE A	93	140.783	-9.078	11.639 1.00 0.00
ATOM	1368	CE2	PHE A	93	140.713	-8.673	9.283 1.00 0.00
ATOM	1369	CZ	PHE A	93	141.098	-9.462	10.350 1.00 0.00
ATOM	1370	Н	PHE A	93	137.693	-5.476	8.484 1.00 0.00
ATOM	1371	HA	PHE A	93	136.968	-6.685	11.065 1.00 0.00
ATOM	1372	1HB	PHE A	93	139.446	-5.036	10.524 1.00 0.00
ATOM	1373	2HB	PHE A	93	138.938	-5.637	12.100 1.00 0.00
ATOM	1374	HD1	PHE A	93	139.836	-7.607	12.866 1.00 0.00
A COOLE	1375	HD2	PHE A	93	139, 713	-6.887	8.674 1.00 0.00

ATOM	1376	HE1	PHE A	93	141.083	-9.693	12.475	1.00	0.00
ATOM	1377	HE2	PHE A	93	140.959	-8.971	8.275	1.00	0.00
ATOM	1378	HZ	PHE A	93	141.645	-10.376	10.176	1.00	0.00
ATOM	1379	N	ALA A	94	135.778	-4.230	10.057	1.00	0.00
ATOM	1380	CA	ALA A	94	135.027	-2.996	10.252	1.00	0.00
ATOM	1381	С	ALA A	94	133.691	-3.270	10.933	1.00	0.00
ATOM	1382	0	ALA A	94	132.872	-4.038	10.431	1.00	0.00
ATOM	1383	CB	ALA A	94	134.809	-2.296	8.918	1.00	0.00
ATOM	1384	H	ALA A	94	135.538	-4.825	9.315	1.00	0.00
ATOM	1385	HA	ALA A	94	135.614	-2.345	10.882	1.00	0.00
ATOM	1386	1HB	ALA A	94	134.850	-3.021	8.120	1.00	0.00
ATOM	1387	2HB	ALA A	94	135.580	-1.554	8.772	1.00	0.00
ATOM	1388	ЗНВ	ALA A	94	133.842	-1.815	8.918	1.00	0.00
ATOM	1389	N	SER A	95	133.478	-2.635	12.081	1.00	0.00
ATOM	1390	CA	SER A	95	132.240	-2.810	12.832	1.00	0.00
ATOM	1391	С	SER A	95	131.059	-2.200	12.085	1.00	0.00
ATOM	1392	0	SER A	95	131.135	-1.074	11.594	1.00	0.00
ATOM	1393	CB	SER A	95	132.365	-2.173	14.217	1.00	0.00
ATOM	1394	OG	SER A	95	131.405	-2.708	15.114	1.00	0.00
ATOM	1395	Н	SER A	95	134.169	-2.034	12.431	1.00	0.00
ATOM	1396	HA	SER A	95	132.070	-3.870	12.947	1.00	0.00
ATOM	1397	1HB	SER A	95	133.352	-2.365	14.611	1.00	0.00
ATOM	1398	2HB	SER A	95	132.210	-1.108	14.137	1.00	0.00
ATOM	1399	HG	SER A	95	130.544	-2.721	14.690	1.00	0.00
ATOM	1400	N	LEU A	96	129.965	-2.952	12.003	1.00	0.00
ATOM	1401	CA	LEU A	96	128.767	-2.486	11.316	1.00	0.00
ATOM	1402	С	LEU A	96	127.508	-2.961	12.035	1.00	0.00
ATOM	1403	0	LEU A	96	127.307	-4.159	12.230	1.00	0.00
ATOM	1404	CB	LEU A	96	128.759	-2.981	9.868	1.00	0.00

ATOM	1405	CG	LEU A	96	129.541	-2.112	8.882	1.00	0.00
ATOM	1406	CD1	LEU A	96	129.667	-2.811	7.537	1.00	0.00
ATOM	1407	CD2	LEU A	96	128.869	-0.757	8.719	1.00	0.00
ATOM	1408	H	LEU A	96	129.965	-3.841	12.415	1.00	0.00
ATOM	1409	HA	LEU A	96	128.783	-1.407	11.317	1.00	0.00
ATOM	1410	1HB	LEU A	96	129.176	-3.978	9.849	1.00	0.00
ATOM	1411	2HB	LEU A	96	127.733	-3.033	9.534	1.00	0.00
ATOM	1412	HG	LEU A	96	130.537	-1.949	9.267	1.00	0.00
ATOM	1413	1HD1	LEU A	96	128.875	-2.478	6.882	1.00	0.00
ATOM	1414	2HD1	LEU A	A 96	129.590	-3.880	7.679	1.00	0.00
ATOM	1415	3HD1	LEU A	96	130.623	-2.574	7.096	1.00	0.00
ATOM	1416	1HD2	LEU A	A 96	128.830	-0.257	9.676	1.00	0.00
ATOM	1417	2HD2	LEU A	A 96	127.866	-0.895	8.344	1.00	0.00
ATOM	1418	3HD2	LEU A	A 96	129.435	-0.156	8.022	1.00	0.00
ATOM	1419	N	GLN A	A 97	126.665	-2.011	12.428	1.00	0.00
ATOM	1420	CA	GLN A	A 97	125.425	-2.332	13.127	1.00	0.00
ATOM	1421	C	GLN A	A 97	124.243	-2.354	12.156	1.00	0.00
ATOM	1422	0	GLN A	A 97	123.755	-1.304	11.739	1.00	0.00
ATOM	1423	CB	GLN A	A 97	125.167	-1.315	14.240	1.00	0.00
ATOM	1424	CG	GLN A	A 97	125.424	-1.863	15.634	1.00	0.00
ATOM	1425	CD	GLN A	A 97	124.146	-2.256	16.350	1.00	0.00
ATOM	1426	OE1	GLN A	A 97	123.962	-1.951	17.528	1.00	0.00
ATOM	1427	NE2	GLN A	A 97	123.255	-2.938	15.639	1.00	0.00
ATOM	1428	H	GLN A	A 97	126.881	-1.073	12.244	1.00	0.00
ATOM	1429	HA	GLN A	A 97	125.537	-3.311	13.565	1.00	0.00
ATOM	1430	1HB	GLN A	A 97	125.810	-0.461	14.089	1.00	0.00
ATOM	1431	2HB	GLN A	A 97	124.138	-0.993	14. 187	1.00	0.00
ATOM	1432	1HG	GLN .	A 97	126.055	-2.735	15.554	1.00	0.00
ATOM	1433	2HG	GLN .	A 97	125.928	-1.107	16.218	1.00	0.00

ATOM 1	1434	1HE2	GLN A		97	123.470	-3.146	14.705	1.00	0.00
ATOM 1	1435	2HE2	GLN A	L	97	122.420	-3.205	16.076	1.00	0.00
ATOM 3	1436	N	PRO A	1	98	123.766	-3.555	11.782	1.00	0.00
ATOM 1	1437	CA	PRO A	1	98	122.638	-3.700	10.858	1.00	0.00
ATOM 3	1438	С	PRO A	I	98	121.303	-3.372	11.518	1.00	0.00
ATOM :	1439	0	PRO A	I	98	121.041	-3.783	12.649	1.00	0.00
ATOM :	1440	СВ	PRO A	A	98	122.694	-5.176	10.467	1.00	0.00
ATOM :	1441	CG	PRO A	A	98	123.315	-5.851	11.641	1.00	0.00
ATOM	1442	CD	PRO A	A	98	124.286	-4.863	12.229	1.00	0.00
ATOM	1443	HA	PRO A	A	98	122.765	-3.085	9.979	1.00	0.00
ATOM	1444	1HB	PRO A	A	98	121.694	-5.541	10.282	1.00	0.00
ATOM	1445	2HB	PRO A	A	98	123.298	-5.295	9.581	1.00	0.00
ATOM	1446	1HG	PRO A	A	98	122.553	-6.103	12.364	1.00	0.00
ATOM	1447	2HG	PRO .	A	98	123.834	-6.741	11.320	1.00	0.00
ATOM	1448	1HD	PRO .	A	98	124.284	-4.928	13.307	1.00	0.00
MOTA	1449	2HD	PRO .	A	98	125.279	-5.033	11.841	1.00	0.00
ATOM	1450	N	SER .	A	99	120.462	-2.631	10.804	1.00	0.00
ATOM	1451	CA	SER .	A	99	119.153	-2.249	11.322	1.00	0.00
ATOM	1452	С	SER	A	99	118.076	-3.219	10.847	1.00	0.00
ATOM	1453	0	SER	A	99	117.225	-3.649	11.627	1.00	0.00
ATOM	1454	СВ	SER	A	99	118.803	-0.826	10.882	1.00	0.00
ATOM	1455	OG	SER	A	99	117.906	-0.216	11.794	1.00	0.00
ATOM	1456	Н	SER	A	99	120.727	-2.335	9.909	1.00	0.00
ATOM	1457	HA	SER	A	99	119.200	-2.282	12.399	1.00	0.00
ATOM	1458	1HB	SER	A	99	119.705	-0.235	10.834	1.00	0.00
ATOM	1459	2HB	SER	A	99	118.341	-0.857	9.907	1.00	0.00
ATOM	1460	HG	SER	A	99	117.119	0.070	11.326	1.00	0.00
ATOM	1461	N	GLY	A	100	118.117	-3.561	9.563	1.00	0.00
ATOM	1462	CA	GLY	A	100	117.140	-4.477	9.006	1.00	0.00

ATOM	1463	С	GLY A 100	117.762	-5.478	8.050 1.00 0.00
ATOM	1464	0	GLY A 100	118.930	-5.840	8.200 1.00 0.00
ATOM	1465	Н	GLY A 100	118.819	-3.187	8.988 1.00 0.00
ATOM	1466	1HA	GLY A 100	116.667	-5.015	9.815 1.00 0.00
ATOM	1467	2HA	GLY A 100	116.390	-3.909	8.478 1.00 0.00
ATOM	1468	N	PRO A 101	117.001	-5.947	7.047 1.00 0.00
ATOM	1469	CA	PRO A 101	117.498	-6.916	6.065 1.00 0.00
ATOM	1470	С	PRO A 101	118.546	-6.311	5.135 1.00 0.00
ATOM	1471	0	PRO A 101	119.493	-6.984	4.730 1.00 0.00
ATOM	1472	СВ	PRO A 101	116.244	-7.303	5.277 1.00 0.00
ATOM	1473	CG	PRO A 101	115.329	-6.138	5.425 1.00 0.00
ATOM	1474	CD	PRO A 101	115.598	-5.570	6.791 1.00 0.00
ATOM	1475	HA	PRO A 101	117.909	-7.791	6.546 1.00 0.00
ATOM	1476	1HB	PRO A 101	116.503	-7.474	4.243 1.00 0.00
ATOM	1477	2HB	PRO A 101	115.813	-8.199	5.699 1.00 0.00
ATOM	1478	1HG	PRO A 101	115.545	-5.402	4.664 1.00 0.00
ATOM	1479	2HG	PRO A 101	114.302	-6.465	5.351 1.00 0.00
ATOM	1480	1HD	PRO A 101	115.482	-4.497	6.784 1.00 0.00
ATOM	1481	2HD	PRO A 101	114.940	-6.018	7.522 1.00 0.00
ATOM	1482	N	SER A 102	2 118.367	-5.037	4.801 1.00 0.00
ATOM	1483	CA	SER A 102	2 119.297	-4.341	3.919 1.00 0.00
ATOM	1484	С	SER A 102	2 118.912	-2.873	3.773 1.00 0.00
ATOM	1485	0	SER A 102	2 119.748	-1.983	3.931 1.00 0.00
MOTA	1486	CB	SER A 102	2 119.328	-5.012	2.544 1.00 0.00
ATOM	1487	OG	SER A 102	2 118.028	-5.404	2.138 1.00 0.00
ATOM	1488	H	SER A 102	2 117.592	-4.554	5.156 1.00 0.00
ATOM	1489	HA	SER A 102	2 120.281	-4.401	4.361 1.00 0.00
ATOM	1490	1HB	SER A 102	2 119.724	-4.319	1.817 1.00 0.00
ATOM	1491	2HB	SER A 102	2 119.958	-5.888	2.587 1.00 0.00

ATOM 1492 HG											
ATOM 1494 CA SER A 103 117.145 -1.265 3.305 1.00 0.00 ATOM 1495 C SER A 103 115.622 -1.246 3.240 1.00 0.00 ATOM 1496 O SER A 103 114.978 -2.295 3.195 1.00 0.00 ATOM 1497 CB SER A 103 117.729 -0.639 2.037 1.00 0.00 ATOM 1498 OG SER A 103 117.022 -3.378 3.359 1.00 0.00 ATOM 1499 H SER A 103 117.022 -3.378 3.359 1.00 0.00 ATOM 1500 HA SER A 103 117.465 -0.689 4.160 1.00 0.00 ATOM 1501 1HB SER A 103 117.946 -1.417 1.321 1.00 0.00 ATOM 1502 2HB SER A 103 117.011 0.048 1.615 1.00 0.00 ATOM 1503 HG SER A 103 119.621 -0.234 1.732 1.00 0.00 ATOM 1505 CA GLY A 104 115.049 -0.046 3.236 1.00 0.00 ATOM 1506 C GLY A 104 113.605 0.086 3.176 1.00 0.00 ATOM 1507 O GLY A 104 113.168 1.467 2.728 1.00 0.00 ATOM 1508 OXT GLY A 104 113.285 1.764 1.521 1.00 0.00 ATOM 1509 H GLY A 104 113.216 -0.645 2.484 1.00 0.00 ATOM 1510 1HA GLY A 104 113.216 -0.645 2.484 1.00 0.00 ATOM 1510 1HA GLY A 104 113.196 -0.108 4.157 1.00 0.00	AT	OM	1492	HG	SER A	102	117.584	-4.662	1.720	1.00	0.00
ATOM 1495 C SER A 103 115.622 -1.246 3.240 1.00 0.00 ATOM 1496 O SER A 103 114.978 -2.295 3.195 1.00 0.00 ATOM 1497 CB SER A 103 117.729 -0.639 2.037 1.00 0.00 ATOM 1498 OG SER A 103 117.022 -3.378 3.359 1.00 0.00 ATOM 1500 HA SER A 103 117.465 -0.689 4.160 1.00 0.00 ATOM 1501 1HB SER A 103 117.946 -1.417 1.321 1.00 0.00 ATOM 1502 2HB SER A 103 117.011 0.048 1.615 1.00 0.00 ATOM 1503 HG SER A 103 119.621 -0.234 1.732 1.00 0.00 ATOM 1504 N GLY A 104 115.049 -0.046 3.236 1.00 0.00 ATOM 1505 CA GLY A 104 113.605 0.086 3.176 1.00 0.00 ATOM 1507 O GLY A 104 113.168 1.467 2.728 1.00 0.00 ATOM 1508 OXT GLY A 104 113.285 1.764 1.521 1.00 0.00 ATOM 1509 H GLY A 104 113.216 -0.645 2.484 1.00 0.00 ATOM 1510 1HA GLY A 104 113.216 -0.645 2.484 1.00 0.00 ATOM 1511 2HA GLY A 104 113.196 -0.108 4.157 1.00 0.00	AT	OM	1493	N	SER A	103	117.641	-2.626	3.472	1.00	0.00
ATOM 1496 O SER A 103 114.978 -2.295 3.195 1.00 0.00 ATOM 1497 CB SER A 103 117.729 -0.639 2.037 1.00 0.00 ATOM 1498 OG SER A 103 118.925 0.066 2.321 1.00 0.00 ATOM 1499 H SER A 103 117.022 -3.378 3.359 1.00 0.00 ATOM 1500 HA SER A 103 117.465 -0.689 4.160 1.00 0.00 ATOM 1501 1HB SER A 103 117.946 -1.417 1.321 1.00 0.00 ATOM 1502 2HB SER A 103 117.011 0.048 1.615 1.00 0.00 ATOM 1503 HG SER A 103 117.011 0.048 1.615 1.00 0.00 ATOM 1504 N GLY A 104 115.049 -0.046 3.236 1.00 0.00 ATOM 1505 CA GLY A 104 113.605 0.086 3.176 1.00 0.00 ATOM 1506 C GLY A 104 113.168 1.467 2.728 1.00 0.00 ATOM 1507 O GLY A 104 113.168 1.467 2.728 1.00 0.00 ATOM 1508 OXT GLY A 104 113.285 1.764 1.521 1.00 0.00 ATOM 1509 H GLY A 104 113.285 1.764 1.521 1.00 0.00 ATOM 1510 1HA GLY A 104 113.216 -0.645 2.484 1.00 0.00 ATOM 1511 2HA GLY A 104 113.196 -0.108 4.157 1.00 0.00	AT	OM	1494	CA	SER A	103	117.145	-1.265	3.305	1.00	0.00
ATOM 1497 CB SER A 103 117.729 -0.639 2.037 1.00 0.00 ATOM 1498 OG SER A 103 118.925 0.066 2.321 1.00 0.00 ATOM 1499 H SER A 103 117.022 -3.378 3.359 1.00 0.00 ATOM 1500 HA SER A 103 117.465 -0.689 4.160 1.00 0.00 ATOM 1501 1HB SER A 103 117.946 -1.417 1.321 1.00 0.00 ATOM 1502 2HB SER A 103 117.011 0.048 1.615 1.00 0.00 ATOM 1503 HG SER A 103 119.621 -0.234 1.732 1.00 0.00 ATOM 1504 N GLY A 104 115.049 -0.046 3.236 1.00 0.00 ATOM 1505 CA GLY A 104 113.605 0.086 3.176 1.00 0.00 ATOM 1506 C GLY A 104 113.168 1.467 2.728 1.00 0.00 ATOM 1507 O GLY A 104 113.285 1.764 1.521 1.00 0.00 ATOM 1508 OXT GLY A 104 113.285 1.764 1.521 1.00 0.00 ATOM 1509 H GLY A 104 115.612 0.755 3.273 1.00 0.00 ATOM 1510 1HA GLY A 104 113.216 -0.645 2.484 1.00 0.00 ATOM 1511 2HA GLY A 104 113.196 -0.108 4.157 1.00 0.00	AT	OM	1495	С	SER A	103	115.622	-1.246	3.240	1.00	0.00
ATOM 1498 OG SER A 103 118.925 0.066 2.321 1.00 0.00 ATOM 1499 H SER A 103 117.022 -3.378 3.359 1.00 0.00 ATOM 1500 HA SER A 103 117.465 -0.689 4.160 1.00 0.00 ATOM 1501 1HB SER A 103 117.946 -1.417 1.321 1.00 0.00 ATOM 1502 2HB SER A 103 117.011 0.048 1.615 1.00 0.00 ATOM 1503 HG SER A 103 119.621 -0.234 1.732 1.00 0.00 ATOM 1504 N GLY A 104 115.049 -0.046 3.236 1.00 0.00 ATOM 1505 CA GLY A 104 113.605 0.086 3.176 1.00 0.00 ATOM 1506 C GLY A 104 113.168 1.467 2.728 1.00 0.00 ATOM 1507 O GLY A 104 113.285 1.764 1.521 1.00 0.00 ATOM 1508 OXT GLY A 104 113.285 1.764 1.521 1.00 0.00 ATOM 1509 H GLY A 104 113.216 -0.645 2.484 1.00 0.00 ATOM 1510 1HA GLY A 104 113.216 -0.645 2.484 1.00 0.00 ATOM 1511 2HA GLY A 104 113.196 -0.108 4.157 1.00 0.00	AT	OM	1496	0	SER A	103	114.978	-2.295	3.195	1.00	0.00
ATOM 1499 H SER A 103 117.022 -3.378 3.359 1.00 0.00 ATOM 1500 HA SER A 103 117.465 -0.689 4.160 1.00 0.00 ATOM 1501 1HB SER A 103 117.946 -1.417 1.321 1.00 0.00 ATOM 1502 2HB SER A 103 117.011 0.048 1.615 1.00 0.00 ATOM 1503 HG SER A 103 119.621 -0.234 1.732 1.00 0.00 ATOM 1504 N GLY A 104 115.049 -0.046 3.236 1.00 0.00 ATOM 1505 CA GLY A 104 113.605 0.086 3.176 1.00 0.00 ATOM 1506 C GLY A 104 113.168 1.467 2.728 1.00 0.00 ATOM 1507 O GLY A 104 113.285 1.764 1.521 1.00 0.00 ATOM 1508 OXT GLY A 104 113.285 1.764 1.521 1.00 0.00 ATOM 1509 H GLY A 104 113.216 -0.645 2.484 1.00 0.00 ATOM 1510 1HA GLY A 104 113.196 -0.108 4.157 1.00 0.00	AT	OM	1497	CB	SER A	103	117.729	-0.639	2.037	1.00	0.00
ATOM 1500 HA SER A 103 117.465 -0.689 4.160 1.00 0.00 ATOM 1501 1HB SER A 103 117.946 -1.417 1.321 1.00 0.00 ATOM 1502 2HB SER A 103 117.011 0.048 1.615 1.00 0.00 ATOM 1503 HG SER A 103 119.621 -0.234 1.732 1.00 0.00 ATOM 1504 N GLY A 104 115.049 -0.046 3.236 1.00 0.00 ATOM 1505 CA GLY A 104 113.605 0.086 3.176 1.00 0.00 ATOM 1506 C GLY A 104 113.168 1.467 2.728 1.00 0.00 ATOM 1507 O GLY A 104 113.285 1.764 1.521 1.00 0.00 ATOM 1508 OXT GLY A 104 113.285 1.764 1.521 1.00 0.00 ATOM 1509 H GLY A 104 115.612 0.755 3.273 1.00 0.00 ATOM 1510 1HA GLY A 104 113.216 -0.645 2.484 1.00 0.00 ATOM 1511 2HA GLY A 104 113.196 -0.108 4.157 1.00 0.00	AT	OM	1498	OG	SER A	103	118.925	0.066	2.321	1.00	0.00
ATOM 1501 1HB SER A 103 117.946 -1.417 1.321 1.00 0.00 ATOM 1502 2HB SER A 103 117.011 0.048 1.615 1.00 0.00 ATOM 1503 HG SER A 103 119.621 -0.234 1.732 1.00 0.00 ATOM 1504 N GLY A 104 115.049 -0.046 3.236 1.00 0.00 ATOM 1505 CA GLY A 104 113.605 0.086 3.176 1.00 0.00 ATOM 1506 C GLY A 104 113.168 1.467 2.728 1.00 0.00 ATOM 1507 O GLY A 104 113.285 1.764 1.521 1.00 0.00 ATOM 1508 OXT GLY A 104 113.285 1.764 1.521 1.00 0.00 ATOM 1509 H GLY A 104 115.612 0.755 3.273 1.00 0.00 ATOM 1510 1HA GLY A 104 113.216 -0.645 2.484 1.00 0.00 ATOM 1511 2HA GLY A 104 113.196 -0.108 4.157 1.00 0.00 ATOM 1511 2HA GLY A 104 113.196	AT	OM	1499	Н	SER A	103	117.022	-3.378	3.359	1.00	0.00
ATOM 1502 2HB SER A 103 117.011 0.048 1.615 1.00 0.00 ATOM 1503 HG SER A 103 119.621 -0.234 1.732 1.00 0.00 ATOM 1504 N GLY A 104 115.049 -0.046 3.236 1.00 0.00 ATOM 1505 CA GLY A 104 113.605 0.086 3.176 1.00 0.00 ATOM 1506 C GLY A 104 113.168 1.467 2.728 1.00 0.00 ATOM 1507 O GLY A 104 112.708 2.251 3.585 1.00 0.00 ATOM 1508 OXT GLY A 104 113.285 1.764 1.521 1.00 0.00 ATOM 1509 H GLY A 104 115.612 0.755 3.273 1.00 0.00 ATOM 1510 1HA GLY A 104 113.216 -0.645 2.484 1.00 0.00 ATOM 1511 2HA GLY A 104 113.196 -0.108 4.157 1.00 0.00	AT	OM	1500	HA	SER A	103	117.465	-0.689	4.160	1.00	0.00
ATOM 1503 HG SER A 103 119.621 -0.234 1.732 1.00 0.00 ATOM 1504 N GLY A 104 115.049 -0.046 3.236 1.00 0.00 ATOM 1505 CA GLY A 104 113.605 0.086 3.176 1.00 0.00 ATOM 1507 O GLY A 104 113.168 1.467 2.728 1.00 0.00 ATOM 1508 OXT GLY A 104 113.285 1.764 1.521 1.00 0.00 ATOM 1509 H GLY A 104 115.612 0.755 3.273 1.00 0.00 ATOM 1510 1HA GLY A 104 113.216 -0.645 2.484 1.00 0.00 ATOM 1511 2HA GLY A 104 113.196 -0.108 4.157 1.00 0.00 ATOM 1511 2HA GLY A 104 113.196 -0.108	AT	OM	1501	1HB	SER A	103	117.946	-1.417	1.321	1.00	0.00
ATOM 1504 N GLY A 104 115.049 -0.046 3.236 1.00 0.00 ATOM 1505 CA GLY A 104 113.605 0.086 3.176 1.00 0.00 ATOM 1506 C GLY A 104 113.168 1.467 2.728 1.00 0.00 ATOM 1507 O GLY A 104 112.708 2.251 3.585 1.00 0.00 ATOM 1508 OXT GLY A 104 113.285 1.764 1.521 1.00 0.00 ATOM 1509 H GLY A 104 115.612 0.755 3.273 1.00 0.00 ATOM 1510 1HA GLY A 104 113.216 -0.645 2.484 1.00 0.00 ATOM 1511 2HA GLY A 104 113.196 -0.108 4.157 1.00 0.00 ATOM 1511 2HA GLY A 104 113.196 -0.108	AT	OM	1502	2HB	SER A	103	117.011	0.048	1.615	1.00	0.00
ATOM 1505 CA GLY A 104 113.605 0.086 3.176 1.00 0.000 ATOM 1506 C GLY A 104 113.168 1.467 2.728 1.00 0.000 ATOM 1507 O GLY A 104 112.708 2.251 3.585 1.00 0.000 ATOM 1508 OXT GLY A 104 113.285 1.764 1.521 1.00 0.000 ATOM 1509 H GLY A 104 115.612 0.755 3.273 1.00 0.000 ATOM 1510 1HA GLY A 104 113.216 -0.645 2.484 1.00 0.000 ATOM 1511 2HA GLY A 104 113.196 -0.108 4.157 1.00 0.000 ATOM 1511 2HA GLY A 104 113.196 -0.108	AT	MO	1503	HG	SER A	103	119.621	-0.234	1.732	1.00	0.00
ATOM 1506 C GLY A 104 113.168 1.467 2.728 1.00 0.00 ATOM 1507 0 GLY A 104 112.708 2.251 3.585 1.00 0.00 ATOM 1508 OXT GLY A 104 113.285 1.764 1.521 1.00 0.00 ATOM 1509 H GLY A 104 115.612 0.755 3.273 1.00 0.00 ATOM 1510 1HA GLY A 104 113.216 -0.645 2.484 1.00 0.00 ATOM 1511 2HA GLY A 104 113.196 -0.108 4.157 1.00 0.00 ATOM 1511 2HA GLY A 104 113.196 -0.108	AT	MO	1504	N	GLY A	104	115.049	-0.046	3.236	1.00	0.00
ATOM 1507 0 GLY A 104 112.708 2.251 3.585 1.00 0.00 ATOM 1508 OXT GLY A 104 113.285 1.764 1.521 1.00 0.00 ATOM 1509 H GLY A 104 115.612 0.755 3.273 1.00 0.00 ATOM 1510 1HA GLY A 104 113.216 -0.645 2.484 1.00 0.00 ATOM 1511 2HA GLY A 104 113.196 -0.108 4.157 1.00 0.00 ATOM 1511 2HA GLY A 104 113.196 -0.108	AT	'OM	1505	CA	GLY A	104	113.605	0.086	3.176	1.00	0.00
ATOM 1508 OXT GLY A 104 113.285 1.764 1.521 1.00 0.00 ATOM 1509 H GLY A 104 115.612 0.755 3.273 1.00 0.00 ATOM 1510 1HA GLY A 104 113.216 -0.645 2.484 1.00 0.00 ATOM 1511 2HA GLY A 104 113.196 -0.108 4.157 1.00 0.00 ATOM 1511 2HA GLY A 104 113.196 -0.108	AT	MO	1506	С	GLY A	104	113.168	1.467	2.728	1.00	0.00
ATOM 1509 H GLY A 104 115.612 0.755 3.273 1.00 0.00 ATOM 1510 1HA GLY A 104 113.216 -0.645 2.484 1.00 0.00 ATOM 1511 2HA GLY A 104 113.196 -0.108 4.157 1.00 0.00	ΑT	MO	1507	0	GLY A	104	112.708	2.251	3.585	1.00	0.00
ATOM 1510 1HA GLY A 104 113.216 -0.645 2.484 1.00 0.00 ATOM 1511 2HA GLY A 104 113.196 -0.108 4.157 1.00 0.00	ΑT	MO	1508	ОХТ	GLY A	104	113.285	1.764	1.521	1.00	0.00
ATOM 1511 2HA GLY A 104 113.196 -0.108 4.157 1.00 0.00	AT	MO	1509	H	GLY A	. 104	115.612	0.755	3.273	1.00	0.00
	AT	MO	1510	1HA	GLY A	104	113.216	-0.645	2.484	1.00	0.00
TER 1512 GLY A 104	ΑT	MO	1511	2HA	GLY A	104	113.196	-0.108	4.157	1.00	0.00
	TE	R	1512		GLY A	. 104					
ENDMOL	EN	IDMI)L								

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ATOM 1	N	GLY A	1 127.996	-5.495	4.967 1.00 0.00
ATOM 2	CA	GLY A	1 127.436	-4.222	5.499 1.00 0.00
ATOM 3	С	GLY A	1 127.407	-3.121	4.459 1.00 0.00
ATOM 4	0	GLY A	1 126.530	-2.258	4.483 1.00 0.00

ATOM	5	1H	GLY A	1	129.036	-5.459	4.975	1.00	0.00
ATOM	6	2H	GLY A	1	127.674	-5.646	3.989	1.00	0.00
ATOM	7	3H	GLY A	1	127.683	-6.296	5.551	1.00	0.00
ATOM	8	1HA	GLY A	1	126.428	-4.402	5.845	1.00	0.00
ATOM	9	2HA	GLY A	1	128.040	-3.898	6.334	1.00	0.00
ATOM	10	N	SER A	2	128.369	-3.150	3.543	1.00	0.00
ATOM	11	CA	SER A	2	128.452	-2.145	2.488	1.00	0.00
ATOM	12	С	SER A	2	127. 262	-2.254	1.539	1.00	0.00
ATOM	13	0	SER A	2	126.460	-1.327	1.425	1.00	0.00
ATOM	14	CB	SER A	2	129.758	-2.301	1.707	1.00	0.00
ATOM	15	0G	SER A	2	130.194	-3.649	1.704	1.00	0.00
ATOM	16	H	SER A	2	129.040	-3.863	3.576	1.00	0.00
ATOM	17	HA	SER A	2	128.436	-1.172	2.956	1.00	0.00
ATOM	18	1HB	SER A	2	129.604	-1.984	0.686	1.00	0.00
ATOM	19	2HB	SER A	2	130.522	-1.688	2.163	1.00	0.00
ATOM	20	HG	SER A	2	130.040	-4.034	0.839	1.00	0.00
ATOM	21	N	SER A	3	127.155	-3.392	0.861	1.00	0.00
ATOM	22	CA	SER A	3	126.063	-3.622	-0.079	1.00	0.00
ATOM	23	C	SER A	3	124.712	-3.534	0.624	1.00	0.00
ATOM	24	0	SER A	3	124.618	-3.732	1.836	1.00	0.00
ATOM	25	CB	SER A	3	126.216	-4.989	-0.747	1.00	0.00
ATOM	26	OG	SER A	3	126.958	-4.889	-1.950	1.00	0.00
ATOM	27	Н	SER A	3	127.825	-4.094	0.995	1.00	0.00
ATOM	28	HA	SER A	3	126.111	-2.853	-0.836	1.00	0.00
ATOM	29	1HB	SER A	3	126.733	-5.659	-0.076	1.00	0.00
ATOM	30	2HB	SER A	3	125.239	-5.388	-0.972	1.00	0.00
ATOM	31	HG	SER A	3	127.724	-4.327	-1.809	1.00	0.00
ATOM	32	N	GLY A	4	123.668	-3.236	-0.143	1.00	0.00
ATOM	33	CA	GLY A	4	122.338	-3.127	0.425	1.00	0.00

ATOM	34	С	GLY A	4	122.252	-2.063	1.500	1.00	0.00
ATOM	35	0	GLY A	4	123.271	-1.522	1.928	1.00	0.00
ATOM	36	Н	GLY A	4	123.804	-3.088	-1.103	1.00	0.00
ATOM	37	1HA	GLY A	4	121.641	-2.885	-0.364	1.00	0.00
ATOM	38	2HA	GLY A	4	122.062	-4.080	0.853	1.00	0.00
ATOM	39	N	SER A	5	121.032	-1.761	1.938	1.00	0.00
ATOM	40	CA	SER A	5	120.812	-0.752	2.971	1.00	0.00
ATOM	41	C	SER A	5	121.111	0.647	2.440	1.00	0.00
ATOM	42	0	SER A	5	120.218	1.488	2.344	1.00	0.00
ATOM	43	СВ	SER A	5	121.680	-1.042	4.198	1.00	0.00
ATOM	44	0G	SER A	5	120.979	-0.763	5.397	1.00	0.00
ATOM	45	H	SER A	5	120.260	-2.229	1.555	1.00	0.00
ATOM	46	HA	SER A	5	119.773	-0.799	3.259	1.00	0.00
ATOM	47	1HB	SER A	5	121.964	-2.085	4.197	1.00	0.00
ATOM	48	2HB	SER A	5	122.568	-0.428	4.162	1.00	0.00
ATOM	49	HG	SER A	5	120.189	-1.306	5.440	1.00	0.00
ATOM	50	N	SER A	6	122.373	0.889	2.097	1.00	0.00
ATOM	51	CA	SER A	6	122.793	2.186	1.576	1.00	0.00
ATOM	52	С	SER A	6	122.700	3.261	2.653	1.00	0.00
ATOM	53	0	SER A	6	121.654	3.883	2.837	1.00	0.00
ATOM	54	CB	SER A	6	121.937	2.580	0.369	1.00	0.00
ATOM	55	OG	SER A	6	121.576	1.443	-0.394	1.00	0.00
ATOM	56	H	SER A	6	123.040	0.178	2.198	1.00	0.00
ATOM	57	HA	SER A	6	123.822	2.098	1.262	1.00	0.00
ATOM	58	1HB	SER A	6	121.038	3.068	0.713	1.00	0.00
ATOM	59	2HB	SER A	6	122.497	3.259	-0.259	1.00	0.00
ATOM	60	HG	SER A	6	120.764	1.623	-0.873	1.00	0.00
ATOM	61	N	GLY A	7	123.804	3.476	3.363	1.00	0.00
ATOM	62	CA	GLY A	7	123.829	4.477	4.412	1.00	0.00

ATOM	63	C	GLY .	A 7	7	125.104	5.296	4.400	1.00	0.00
ATOM	64	0	GLY .	A 7	7	125.065	6.520	4.527	1.00	0.00
ATOM	65	Н	GLY .	A 7	7	124.609	2.950	3.170	1.00	0.00
ATOM	66	1HA	GLY .	A 7	7	122.986	5.140	4.283	1.00	0.00
ATOM	67	2HA	GLY .	A 7	7	123.740	3.983	5.369	1.00	0.00
ATOM	68	N	LEU .	A 8	3	126.238	4.620	4.248	1.00	0.00
ATOM	69	CA	LEU .	A 8	3	127.532	5.292	4.219	1.00	0.00
ATOM	70	c	LEU .	A 8	3	128. 105	5.309	2.805	1.00	0.00
ATOM	71	0	LEU	A 8	3	128.927	4.466	2.448	1.00	0.00
ATOM	72	CB	LEU	A 8	3	128.512	4.600	5.169	1.00	0.00
ATOM	73	CG	LEU	A 8	8	127.931	4.217	6.531	1.00	0.00
ATOM	74	CD1	LEU	A 8	3	128.639	2.991	7.087	1.00	0.00
ATOM	75	CD2	LEU	A 8	8	128.039	5.384	7.502	1.00	0.00
ATOM	76	H	LEU	A 8	8	126. 204	3.645	4.152	1.00	0.00
ATOM	77	HA	LEU	A 8	8	127.384	6.310	4.548	1.00	0.00
ATOM	78	1HB	LEU	A 8	8	128.872	3.702	4.689	1.00	0.00
ATOM	79	2HB	LEU	A 8	8	129.349	5.261	5.333	1.00	0.00
ATOM	80	HG	LEU	A 8	8	126.885	3.974	6.415	1.00	0.00
ATOM	81	1HD1	LEU	A 8	8	128.427	2.901	8.143	1.00	0.00
ATOM	82	2HD1	LEU	A 8	8	129.705	3.094	6.942	1.00	0.00
ATOM	83	3HD1	LEU	A 8	8	128.288	2.108	6.573	1.00	0.00
ATOM	84	1HD2	LEU	A 8	8	127.268	5.299	8.253	1.00	0.00
ATOM	85	2HD2	LEU	A 8	8	127.917	6.312	6.964	1.00	0.00
ATOM	86	3HD2	LEU	A 8	8	129.008	5.368	7.978	1.00	0.00
ATOM	87	N	ALA	A 9	9	127.663	6.274	2.004	1.00	0.00
ATOM	88	CA	ALA	A 9	9	128.131	6.400	0.630	1.00	0.00
ATOM	89	С	ALA	A 9	9	128.306	7.864	0.241	1.00	0.00
ATOM	90	0	ALA	A S	9	127.411	8.683	0.450	1.00	0.00
ATOM	91	CB	ALA	A !	9	127.166	5.710	-0.321	1.00	0.00

ATOM	92	Н	ALA .	A 9)	127.007	6.917	2.347	1.00	0.00
ATOM	93	HA	ALA .	A 9)	129.088	5.903	0.558	1.00	0.00
ATOM	94	1HB	ALA .	A 9)	126.500	6.444	-0.753	1.00	0.00
ATOM	95	2HB	ALA .	A 9)	126.588	4.976	0.222	1.00	0.00
ATOM	96	знв	ALA .	A 9)	127.721	5.222	-1.107	1.00	0.00
ATOM	97	N	MET .	A 10)	129.464	8.186	-0.326	1.00	0.00
MOTA	98	CA	MET	A 10)	129.755	9.553	-0.746	1.00	0.00
ATOM	99	С	MET	A 10)	130.359	9.575	-2.148	1.00	0.00
ATOM	100	0	MET	A 10)	131.577	9.500	-2.309	1.00	0.00
ATOM	101	CB	MET	A 10)	130.713	10.218	0.244	1.00	0.00
ATOM	102	CG	MET	A 10)	130.546	11.726	0.332	1.00	0.00
ATOM	103	SD	MET	A 10)	132.032	12.556	0.926	1.00	0.00
ATOM	104	CE	MET	A 10)	132.482	11.502	2.302	1.00	0.00
ATOM	105	Н	MET	A 10)	130. 137	7.489	-0.466	1.00	0.00
ATOM	106	HA	MET	A 10)	128.826	10.101	-0.756	1.00	0.00
ATOM	107	1HB	MET	A 10)	130.546	9.801	1.225	1.00	0.00
ATOM	108	2HB	MET	A 10)	131.728	10.008	-0.059	1.00	0.00
ATOM	109	1HG	MET	A 10	0	130.307	12.107	-0.649	1.00	0.00
ATOM	110	2HG	MET	A 10	C	129.733	11.945	1.009	1.00	0.00
ATOM	111	1HE	MET	A 10	0	131.660	10.838	2.531	1.00	0.00
ATOM	112	2HE	MET	A 10	0	132.704	12.111	3.166	1.00	0.00
ATOM	113	3HE	MET	A 10	0	133.353	10.919	2.040	1.00	0.00
ATOM	114	N	PRO	A 1	1	129.510	9.679	-3.186	1.00	0.00
ATOM	115	CA	PRO	A 1	1	129.968	9.712	-4.578	1.00	0.00
MOTA	116	С	PRO	A 1	1	130.980	10.829	-4.830	1.00	0.00
ATOM	117	0	PRO	A 13	1	132.013	10.604	-5.461	1.00	0.00
ATOM	118	CB	PRO	A 1	1	128.690	9.958	-5.383	1.00	0.00
ATOM	119	CG	PRO	A 1	1	127. 575	9.536	-4.490	1.00	0.00
ATOM	120	CD	PRO	A 1	1	128.044	9.776	-3.082	1.00	0.00

ATOM	121	HA	PRO A	11 130.404	8.768	-4.869 1.00 0.00
ATOM	122	1HB	PRO A	11 128.619	11.004	-5.640 1.00 0.00
ATOM	123	2HB	PRO A	11 128.714	9.365	-6.286 1.00 0.00
ATOM	124	1HG	PRO A	11 126.699	10.131	-4.695 1.00 0.00
ATOM	125	2HG	PRO A	11 127.361	8.488	-4.639 1.00 0.00
ATOM	126	1HD	PRO A	11 127.745	10.759	-2.747 1.00 0.00
ATOM	127	2HD	PRO A	11 127.654	9.016	-2.420 1.00 0.00
ATOM	128	N	PRO A	12 130.705	12.051	-4.336 1.00 0.00
ATOM	129	CA	PRO A	12 131.611	13.191	-4.516 1.00 0.00
ATOM	130	С	PRO A	12 132.995	12.918	-3.938 1.00 0.00
ATOM	131	0	PRO A	12 133.971	13.573	-4.303 1.00 0.00
ATOM	132	СВ	PRO A	12 130.928	14.329	-3.749 1.00 0.00
ATOM	133	CG	PRO A	12 129.499	13.920	-3.643 1.00 0.00
ATOM	134	CD	PRO A	12 129.506	12.421	-3.563 1.00 0.00
ATOM	135	HA	PRO A	12 131.705	13.460	-5.558 1.00 0.00
ATOM	136	1HB	PRO A	12 131.382	14.431	-2.775 1.00 0.00
ATOM	137	2HB	PRO A	12 131.033	15.251	-4.300 1.00 0.00
ATOM	138	1HG	PRO A	12 129.061	14.342	-2.750 1.00 0.00
ATOM	139	2HG	PRO A	12 128.957	14.246	-4.519 1.00 0.00
ATOM	140	1HD	PRO A	12 129.593	12.098	-2.536 1.00 0.00
ATOM	141	2HD	PRO A	12 128.615	12.015	-4.013 1.00 0.00
ATOM	142	N	GLY A	13 133.070	11.946	-3.033 1.00 0.00
ATOM	143	CA	GLY A	13 134.339	11.603	-2.418 1.00 0.00
ATOM	144	С	GLY A	13 135.224	10.780	-3.333 1.00 0.00
ATOM	145	0	GLY A	13 135.246	10.995	-4.545 1.00 0.00
ATOM	146	H	GLY A	13 132.258	11.458	-2.781 1.00 0.00
ATOM	147	1HA	GLY A	13 134.858	12.515	-2.158 1.00 0.00
ATOM	148	2HA	GLY A	13 134.149	11.040	-1.517 1.00 0.00
ATOM	149	N	ASN A	14 135.956	9.835	-2.753 1.00 0.00

ATOM 1	.50	CA	ASN .	A	14	136.846	8.976	-3.524	1.00	0.00
ATOM 1	.51	С	ASN	A	14	136.100	7.759	-4.061	1.00	0.00
ATOM 1	152	0	ASN	A	14	136.231	7.404	-5.232	1.00	0.00
ATOM 1	153	CB	ASN	A	14	138.027	8.525	-2.662	1.00	0.00
ATOM 1	l54	CG	ASN	A	14	138.857	9.692	-2.162	1.00	0.00
ATOM 3	155	0D1	ASN	A	14	138.854	10.769	-2.756	1.00	0.00
ATOM 3	156	ND2	ASN	A	14	139.573	9.481	-1.064	1.00	0.00
ATOM :	157	Н	ASN	A	14	135.895	9.712	-1.782	1.00	0.00
ATOM :	158	НА	ASN	A	14	137.220	9.551	-4.358	1.00	0.00
ATOM .	159	1HB	ASN	A	14	137.653	7.982	-1.806	1.00	0.00
ATOM	160	2HB	ASN	A	14	138.663	7.876	-3.245	1.00	0.00
ATOM	161	1HD2	ASN	A	14	139.527	8.597	-0.644	1.00	0.00
ATOM	162	2HD2	ASN	A	14	140.120	10.217	-0.719	1.00	0.00
ATOM	163	N	SER	A	15	135.315	7.125	-3.196	1.00	0.00
ATOM	164	CA	SER	A	15	134.547	5.947	-3.583	1.00	0.00
ATOM	165	С	SER	A	15	133.644	5.488	-2.442	1.00	0.00
ATOM	166	0	SER	A	15	132.494	5.108	-2.662	1.00	0.00
ATOM	167	CB	SER	A	15	135.486	4.812	-3.996	1.00	0.00
ATOM	168	0G	SER	A	15	136.245	4.351	-2.892	1.00	0.00
ATOM	169	H	SER	A	15	135.251	7.455	-2.275	1.00	0.00
ATOM	170	HA	SER	A	15	133.930	6.217	-4.427	1.00	0.00
ATOM	171	1HB	SER	A	15	134.904	3.989	-4.385	1.00	0.00
ATOM	172	2HB	SER	Α	15	136.162	5.168	-4.759	1.00	0.00
ATOM	173	HG	SER	A	15	137.023	4.903	-2.786	1.00	0.00
ATOM	174	N	HIS	A	16	134.175	5.525	-1.224	1.00	0.00
ATOM	175	CA	HIS	A	16	133.417	5.111	-0.049	1.00	0.00
ATOM	176	С	HIS	A	16	133.979	5.757	1.214	1.00	0.00
ATOM	177	0	HIS	A	16	133.236	6.307	2.026	3 1.00	0.00
ATOM	178	CB	HIS	A	16	133.435	3.586	0.086	5 1.00	0.00

ATOM 208	HA	LEU A	18 139.370	4.264	3.047 1.00 0.00
ATOM 209	1HB	LEU A	18 140.207	4.868	0.216 1.00 0.00
ATOM 210	2HB	LEU A	18 140.775	3.563	1.240 1.00 0.00
ATOM 211	HG	LEU A	18 137.875	3.684	0.534 1.00 0.00
ATOM 212	1HD1	LEU A	18 138.111	2.991	-1.597 1.00 0.00
ATOM 213	2HD1	LEU A	18 139.612	2.126	-1.266 1.00 0.00
ATOM 214	3HD1	LEU A	18 139.632	3.876	-1.488 1.00 0.00
ATOM 215	1HD2	LEU A	18 137.880	1.440	1.041 1.00 0.00
ATOM 216	2HD2	LEU A	18 139.107	2.045	2.154 1.00 0.00
ATOM 217	3HD2	LEU A	18 139.590	1.246	0.658 1.00 0.00
ATOM 218	N	GLU A	19 141.003	5.945	3.825 1.00 0.00
ATOM 219.	CA	GLU A	19 142.020	6.879	4.293 1.00 0.00
ATOM 220	С	GLU A	19 143.006	6.186	5.228 1.00 0.00
ATOM 221	0	GLU A	19 142.874	4.996	5.513 1.00 0.00
ATOM 222	CB	GLU A	19 141.365	8.062	5.010 1.00 0.00
ATOM 223	CG	GLU A	19 140.356	7.647	6.069 1.00 0.00
ATOM 224	CD	GLU A	19 140.441	8.499	7.320 1.00 0.00
ATOM 225	OE1	GLU A	19 139.379	8.824	7.891 1.00 0.00
ATOM 226	OE2	GLU A	19 141.570	8.843	7.730 1.00 0.00
ATOM 227	H	GLU A	19 140.647	5.276	4.445 1.00 0.00
ATOM 228	HA	GLU A	19 142.556	7.246	3.431 1.00 0.00
ATOM 229	1HB	GLU A	19 142.135	8.649	5.487 1.00 0.00
ATOM 230	2HB	GLU A	19 140.856	8.674	4.280 1.00 0.00
ATOM 231	1HG	GLU A	19 139.363	7.738	5.657 1.00 0.00
ATOM 232	2HG	GLU A	19 140.540	6.618	6.340 1.00 0.00
ATOM 233	N	VAL A	20 143.994	6.939	5.702 1.00 0.00
ATOM 234	CA	VAL A	20 145.003	6.398	6.605 1.00 0.00
ATOM 235	С	VAL A	20 144.363	5.835	7.870 1.00 0.00
ATOM 236	0	VAL A	20 143.408	6.402	8.400 1.00 0.00

ATOM 237	СВ	VAL A	20 146.035	7.470	7.000 1.00 0.00
ATOM 238	CG1	VAL A	20 147.175	6.849	7.793 1.00 0.00
ATOM 239	CG2	VAL A	20 146.563	8. 184	5.765 1.00 0.00
ATOM 240	Н	VAL A	20 144.045	7.882	5.438 1.00 0.00
ATOM 241	HA	VAL A	20 145.520	5.603	6.089 1.00 0.00
ATOM 242	HB	VAL A	20 145.546	8.199	7.628 1.00 0.00
ATOM 243	1HG1	VAL A	20 146.826	6.589	8.781 1.00 0.00
ATOM 244	2HG1	VAL A	20 147.987	7.558	7.873 1.00 0.00
ATOM 245	3HG1	VAL A	20 147.523	5.960	7.289 1.00 0.00
ATOM 246	1HG2	VAL A	20 145.905	9.001	5.513 1.00 0.00
ATOM 247	2HG2	VAL A	20 146.608	7.489	4.939 1.00 0.00
ATOM 248	3HG2	VAL A	20 147.552	8.568	5.965 1.00 0.00
ATOM 249	N	GLY A	21 144.897	4.714	8.348 1.00 0.00
ATOM 250	CA	GLY A	21 144.365	4.094	9.547 1.00 0.00
ATOM 251	С	GLY A	21 143.362	2.999	9.237 1.00 0.00
ATOM 252	0	GLY A	21 143.332	1.968	9.909 1.00 0.00
ATOM 253	Н	GLY A	21 145.657	4.307	7.882 1.00 0.00
ATOM 254	1HA	GLY A	21 145.181	3.670	10.111 1.00 0.00
ATOM 255	2HA	GLY A	21 143.881	4.850	10.147 1.00 0.00
ATOM 256	N	SER A	22 142.540	3.222	8.216 1.00 0.00
ATOM 257	CA	SER A	22 141.533	2.247	7.819 1.00 0.00
ATOM 258	С	SER A	22 142.140	1.169	6.927 1.00 0.00
ATOM 259	0	SER A	22 143.184	1.377	6.308 1.00 0.00
ATOM 260	CB	SER A	22 140.381	2.940	7.088 1.00 0.00
ATOM 261	OG	SER A	22 139.915	4.061	7.820 1.00 0.00
ATOM 262	H	SER A	22 142.615	4.063	7.719 1.00 0.00
ATOM 263	HA	SER A	22 141.150	1.782	8.716 1.00 0.00
ATOM 264	1HB	SER A	22 140.722	3.275	6.120 1.00 0.00
ATOM 265	2HB	SER A	22 139.566	2.244	6.962 1.00 0.00

ATOM 266	HG	SER A	22 139	9.825	3.824	8.746 1.00 0.00
ATOM 267	N	LEU A	23 14	1.480	0.017	6.867 1.00 0.00
ATOM 268	CA	LEU A	23 14	1.956	-1.095	6.052 1.00 0.00
ATOM 269	С	LEU A	23 14	1.365	-1.033	4.648 1.00 0.00
ATOM 270	0	LEU A	23 14	0.256	-0.536	4.451 1.00 0.00
ATOM 271	CB	LEU A	23 14	1.597	-2.428	6.711 1.00 0.00
ATOM 272	CG	LEU A	23 14	2.398	-2.764	7.970 1.00 0.00
ATOM 273	CD1	LEU A	23 14	1.572	-3.626	8.913 1.00 0.00
ATOM 274	CD2	LEU A	23 14	3.697	-3.466	7.602 1.00 0.00
ATOM 275	H	LEU A	23 14	10.655	-0.089	7.384 1.00 0.00
ATOM 276	HA	LEU A	23 14	13.031	-1.017	5.981 1.00 0.00
ATOM 277 ·	1HB	LEU A	23 14	10.549	-2.406	6.971 1.00 0.00
ATOM 278	2HB	LEU A	23 14	41.755	-3.216	5.990 1.00 0.00
ATOM 279	HG	LEU A	23 14	42.646	-1.848	8.485 1.00 0.00
ATOM 280	1HD	1 LEU A	23 1	41.798	-4.668	8.739 1.00 0.00
ATOM 281	2HD	1 LEU A	23 1	40.522	-3.451	8.734 1.00 0.00
ATOM 282	3HD	1 LEU A	23 1	41.811	-3.372	9.935 1.00 0.00
ATOM 283	1HD	2 LEU A	23 1	44.307	-3.580	8.485 1.00 0.00
ATOM 284	2HD	2 LEU A	23 1	44.230	-2.877	6.870 1.00 0.00
ATOM 285	3HI)2 LEU A	23 1	43.475	-4.439	7.190 1.00 0.00
ATOM 286	N	ALA A	24 1	42.112	-1.543	3.674 1.00 0.00
ATOM 287	CA	ALA A	24 1	141.663	-1.547	2.287 1.00 0.00
ATOM 288	С	ALA A	24	142.247	-2.733	1.526 1.00 0.00
ATOM 289	0	ALA A	24	143. 268	3 -3.294	1.920 1.00 0.00
ATOM 290	СВ	ALA A	24	142.041	-0.242	1.605 1.00 0.00
ATOM 291	Н	ALA A	A 24	142.987	7 -1.926	3.894 1.00 0.00
ATOM 292	HA	ALA .	A 24	140.585	5 -1.627	2.286 1.00 0.00
ATOM 293	1H	B ALA.	A 24	143.11	5 -0.194	1.488 1.00 0.00
ATOM 294	2H	B ALA	A 24	141.710	0.590	2.210 1.00 0.00

AMON OOF	OILIO	AT A A	94 1	41.571	-0.191	0.635 1.00 0.00
ATOM 295	3HB	ALA A			-3. 108	0.432 1.00 0.00
ATOM 296	N	GLU A		41.590		-0.385 1.00 0.00
ATOM 297	CA	GLU A		42.043	-4.228	
ATOM 298	С	GLU A	25 1	42.350	-3.772	-1.808 1.00 0.00
ATOM 299	0	GLU A	25 1	41.727	-2.844	-2.321 1.00 0.00
ATOM 300	CB	GLU A	25]	140.984	-5.332	-0.407 1.00 0.00
ATOM 301	CG	GLU A	25	141.514	-6.676	-0.879 1.00 0.00
ATOM 302	CD	GLU A	25	140.504	-7.441	-1.711 1.00 0.00
ATOM 303	OE1	GLU A	25	140.920	-8.347	-2.463 1.00 0.00
ATOM 304	OE2	GLU A	25	139.298	-7.134	-1.611 1.00 0.00
ATOM 305	H	GLU A	25	140.781	-2.621	0.169 1.00 0.00
ATOM 306	HA	GLU A	25	142.947	-4.617	0.058 1.00 0.00
ATOM 307	1HB	GLU A	25	140.589	-5.454	0.590 1.00 0.00
ATOM 308	2HB	GLU A	25	140.184	-5.032	-1.068 1.00 0.00
ATOM 309	1H0	GLU A	25	142.399	-6.511	-1.476 1.00 0.00
ATOM 310	2H0	GLU A	25	141.771	-7.270	-0.013 1.00 0.00
ATOM 311	N	VAL A	. 26	143.315	-4.433	-2.442 1.00 0.00
ATOM 312	CA	VAL A	26	143.705	-4.095	-3.805 1.00 0.00
ATOM 313	С	VAL A	26	143.324	-5.207	-4.777 1.00 0.00
ATOM 314	0	VAL A	26	143.308	3 –6.383	-4.414 1.00 0.00
ATOM 315	СВ	VAL A	A 26	145.219	9 –3.835	-3.909 1.00 0.00
ATOM 316	CG	1 VAL	A 26	145.57	4 -3.289	-5.284 1.00 0.00
ATOM 317	CG	2 VAL	A 26	145.67	4 -2.882	2 -2.814 1.00 0.00
ATOM 318	Н	VAL .	A 26	143.77	6 -5.165	5 -1.979 1.00 0.00
ATOM 319	HA	VAL	A 26	3 143.18	4 -3.19	-4.086 1.00 0.00
ATOM 320	Н	3 VAL	A 26	3 145.73	5 -4.77	5 -3.776 1.00 0.00
ATOM 321	. 1F	IG1 VAL	A 26	6 145.88	35 -4.10	0 -5.925 1.00 0.00
ATOM 322	2 E	IG1 VAL	A 20	6 146.37	79 –2.57	5 -5.190 1.00 0.00
ATOM 323	3 3I	HG1 VAL	A 2	6 144.7	10 -2.80	2 -5.712 1.00 0.00

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-2.905 1.00 0.00
                                  -1.948
           1HG2 VAL A 26 145.138
ATOM 324
                                           -2.913 1.00 0.00
                                   -2.700
                       26 146.733
ATOM 325
           2HG2 VAL A
                                   -3.321
                                           -1.849 1.00 0.00
                       26 145.472
ATOM 326
           3HG2 VAL A
                                            -6.013 1.00 0.00
                                   -4.827
ATOM 327
           N
                LYS A
                       27 143.019
                LYS A
                       27 142.638
                                   -5.792
                                           -7.038 1.00 0.00
ATOM 328
           CA
                                           -7.835 1.00 0.00
                                   -6.246
ATOM 329
           C
                LYS A
                       27 143.856
                                           -8.917 1.00 0.00
                                   -5.728
ATOM 330
           0
                LYS A
                       27 144.131
                                   -5.184
                                           -7.978 1.00 0.00
ATOM 331
           CB
                LYS A
                       27 141.596
                                   -6.215
                                           -8.820 1.00 0.00
           CG
                LYS A
                       27 140.860
ATOM 332
                                   -6.206 -10.262 1.00 0.00
                LYS A
                       27 141.342
ATOM 333
           CD
                                   -7.596 -10.876 1.00 0.00
                       27 141.289
ATOM 334
           CE
                LYS A
                       27 141.792
                                   -7.605 -12.277 1.00 0.00
ATOM 335
           NZ
                LYS A
           H
                LYS A
                        27 143.050
                                    -3.875 -6.241 1.00 0.00
ATOM 336
                                    -6.649 \quad -6.542 \quad 1.00 \quad 0.00
           HA
                LYS A
                        27 142.208
ATOM 337
                                    -4.647 -7.389 1.00 0.00
                       27 140.867
           1HB
                LYS A
ATOM 338
                                    -4.491 -8.645 1.00 0.00
                LYS A
                        27 142.089
ATOM 339
            2HB
                                    -7.196
                                            -8.400 1.00 0.00
                LYS A
                        27 141.031
ATOM 340
            1HG
                                    -5.993 -8.801 1.00 0.00
                        27 139.803
            2HG
                LYS A
ATOM 341
                                    -5.546 -10.838 1.00 0.00
                 LYS A
                        27 140.712
ATOM 342
            1HD
                                    -5.850 -10.289 1.00 0.00
                 LYS A
                        27 142.362
ATOM 343
            2HD
                                    -8.262 -10.281 1.00 0.00
            1HE
                 LYS A
                        27 141.897
ATOM 344
                 LYS A
                        27 140.265
                                    -7.940 -10.867 1.00 0.00
            2HE
 ATOM 345
                        27 142.831
                                     -7.630 -12.284 1.00 0.00
                 LYS A
 ATOM 346
            1HZ
                                    -6.749 - 12.776 1.00 0.00
                 LYS A
                        27 141.475
            2HZ
 ATOM 347
                                     -8.439 -12.781 1.00 0.00
                        27 141.431
            3HZ
                 LYS A
 ATOM 348
                                     -7.219 -7.294 1.00 0.00
                        28 144.583
                 GLU A
 ATOM 349
            N
                                    -7.744 -7.955 1.00 0.00
                 GLU A
                        28 145.772
 ATOM 350
            CA
                                     -9.263 -8.080 1.00 0.00
                        28 145.696
 ATOM 351
            C
                 GLU A
                                    -9.864 -7.844 1.00 0.00
 ATOM 352
            0
                 GLU A
                        28 144.649
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-7.180 \ 1.00 \ 0.00
                GLU A
                       28 147.030
                                    -7.343
ATOM 353
           CB
                                            -8.060 1.00 0.00
           CG
                GLU A
                       28 148.126
                                    -6.764
ATOM 354
                                            -7.433 1.00 0.00
                        28 148.802
                                    -5.560
ATOM 355
           CD
                GLU A
                                            -6.944 1.00 0.00
                GLU A
                        28 149.942
                                    -5.707
           OE1
ATOM 356
                                            -7.431 1.00 0.00
                        28 148.191
                                    -4.471
                GLU A
ATOM 357
           0E2
                                            -6.429 1.00 0.00
                        28 144.312
                                    -7.593
           Η
                GLU A
ATOM 358
                                            -8.945 1.00 0.00
                                    -7.315
                        28 145.817
           HA
                GLU A
ATOM 359
                                    -6.603
                                            -6.441 1.00 0.00
                        28 146.763
                 GLU A
ATOM 360
            1HB
                                             -6.678 \ 1.00 \ 0.00
                                    -8.215
                        28 147.424
ATOM 361
            2HB
                 GLU A
                                             -8.233 1.00 0.00
                                    -7.526
                 GLU A
                        28 148.871
ATOM 362
            1HG
                                             -9.003 1.00 0.00
                        28 147.693
                                    -6.465
                 GLU A
            2HG
ATOM 363
                                             -8.453 1.00 0.00
                                    -9.877
                        29 146.815
                 ASN A
ATOM 364
            N
                                             -8.608 1.00 0.00
                        29 146.875 -11.325
                 ASN A
ATOM 365
            CA
                                             -7.247 1.00 0.00
                        29 146.931 -12.016
                 ASN A
ATOM 366
            С
                                             -6.920 1.00 0.00
                        29 146.068 -12.831
 ATOM 367
            0
                 ASN A
                        29 148.093 -11.719 -9.448 1.00 0.00
 ATOM 368
            CB
                 ASN A
                         29 147.735 -11.979 -10.898 1.00 0.00
 ATOM 369
            CG
                 ASN A
                         29 147.584 -13.127 -11.316 1.00 0.00
 ATOM 370
            0D1
                 ASN A
                         29 147.598.-10.910 -11.674 1.00 0.00
            ND2
                 ASN A
 ATOM 371
                         29 147.619 -9.344 -8.626 1.00 0.00
            Η
                 ASN A
 ATOM 372
                         29 145.978 -11.640 -9.121 1.00 0.00
                  ASN A
 ATOM 373
            HA
                                             -9.413 1.00 0.00
                         29 148.819 -10.921
             1HB
                 ASN A
 ATOM 374
                         29 148.531 -12.617 -9.037 1.00 0.00
                  ASN A
             2HB
 ATOM 375
                         29 147.734 -10.027 -11.273 1.00 0.00
             1HD2 ASN A
 ATOM 376
                         29 147.368 -11.049 -12.616 1.00 0.00
             2HD2 ASN A
 ATOM 377
                                              -6.434 1.00 0.00
                         30 147.953 -11.697
             N
                  PRO A
 ATOM 378
                                              -5.105 1.00 0.00
                         30 148.120 -12.289
             CA
                  PRO A
 ATOM 379
                                              -4.063 1.00 0.00
                  PRO A
                         30 147.205 -11.646
             C
 ATOM 380
                         30 147.389 -10.485
                                              -3.701 1.00 0.00
             0
                  PRO A
  ATOM 381
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ATOM 382	CB	PRO A	30 149.583 -11.995	-4.782 1.00 0.00
ATOM 383	CG	PRO A	30 149.872 -10.721	-5.497 1.00 0.00
ATOM 384	CD	PRO A	30 149.028 -10.735	-6.746 1.00 0.00
ATOM 385	HA	PRO A	30 147.959 -13.357	-5.123 1.00 0.00
ATOM 386	1HB	PRO A	30 149.705 -11.890	-3.714 1.00 0.00
ATOM 387	2HB	PRO A	30 150.205 -12.800	-5.145 1.00 0.00
ATOM 388	1HG	PRO A	30 149.602 -9.881	-4.872 1.00 0.00
ATOM 389	2HG	PRO A	30 150.920 -10.674	-5.754 1.00 0.00
ATOM 390	1HD	PRO A	30 148.621 -9.752	-6.936 1.00 0.00
ATOM 391	2HD	PRO A	30 149.612 -11.070	-7.590 1.00 0.00
ATOM 392	N	PRO A	31 146.201 -12.393	-3.566 1.00 0.00
ATOM 393	CA	PRO A	31 145.261 -11.880	-2.562 1.00 0.00
ATOM 394	С	PRO A	31 145.954 -11.524	-1.252 1.00 0.00
ATOM 395	0	PRO A	31 146.396 -12.403	-0.513 1.00 0.00
ATOM 396	CB	PRO A	31 144.280 -13.041	-2.347 1.00 0.00
ATOM 397	CG	PRO A	31 144.464 -13.934	-3.527 1.00 0.00
ATOM 398	CD	PRO A	31 145.900 -13.784	-3.937 1.00 0.00
ATOM 399	HA	PRO A	31 144.725 -11.017	-2.930 1.00 0.00
ATOM 400	1HB	PRO A	31 144.523 -13.553	-1.427 1.00 0.00
ATOM 401	2HB	PRO A	31 143.272 -12.660	-2.297 1.00 0.00
ATOM 402	1HG	PRO A	31 144.257 -14.958	-3.251 1.00 0.00
ATOM 403	2HG	PRO A	31 143.812 -13.622	-4.330 1.00 0.00
ATOM 404	1HD	PRO A	31 146.524 -14.474	-3.389 1.00 0.00
ATOM 405	2HD	PRO A	31 146.009 -13.933	-5.000 1.00 0.00
ATOM 406	N	PHE A	32 146.045 -10.228	-0.969 1.00 0.00
ATOM 407	CA	PHE A	32 146.685 -9.757	0.254 1.00 0.00
ATOM 408	С	PHE A	32 145.819 -8.715	0.955 1.00 0.00
ATOM 409	0	PHE A	32 144.887 -8.169	0.365 1.00 0.00
ATOM 410	CB	PHE A	32 148.062 -9.169	-0.058 1.00 0.00

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-1.219 1.00 0.00
                       32 148.060
                                    -8.215
           CG
                PHE A
ATOM 411
                                             -2.377 1.00 0.00
                                    -8.514
ATOM 412
           CD1
                PHE A
                        32 148.759
                                             -1.150 1.00 0.00
                                    -7.020
           CD2
                PHE A
                        32 147.362
ATOM 413
                                             -3.448 1.00 0.00
                PHE A
                        32 148.759
                                     -7.640
ATOM 414
           CE1
                                             -2.217 1.00 0.00
                                     -6.142
                 PHE A
                        32 147.359
           CE2
ATOM 415
                                     -6.452
                                             -3.368 1.00 0.00
           CZ
                 PHE A
                        32 148.059
ATOM 416
                                             -1.596 1.00 0.00
                                     -9.573
                        32 145.674
                 PHE A
ATOM 417
           Η
                                              0.911 1.00 0.00
                        32 146.807 -10.605
                 PHE A
ATOM 418
           HA
                                              0.809 1.00 0.00
                                     -8.635
                        32 148.421
                 PHE A
            1HB
ATOM 419
                                             -0.287 \ 1.00 \ 0.00
                                     -9.973
                        32 148.746
ATOM 420
            2HB
                 PHE A
                                             -2.442 1.00 0.00
                                     -9.443
                 PHE A
                        32 149.306
            HD1
ATOM 421
                                     -6.776
                                             -0.252 1.00 0.00
                 PHE A
                        32 146.815
            HD2
ATOM 422
                        32 149.308
                                     -7.885
                                              -4.346 1.00 0.00
                 PHE A
ATOM 423
            HE1
                                     -5.213
                                              -2.153 1.00 0.00
                 PHE A
                         32 146.811
            HE2
 ATOM 424
                                     -5.767
                                              -4.202\ 1.00\ 0.00
                         32 148.059
                 PHE A
 ATOM 425
            HZ
                                               2.217 1.00 0.00
                                     -8.443
                         33 146.135
            N
                 TYR A
 ATOM 426
                                               2.999 1.00 0.00
                         33 145.387
                                     -7.466
                  TYR A
 ATOM 427
            CA
                                               3.736 1.00 0.00
                                     -6.522
                         33 146.331
            C
                  TYR A
 ATOM 428
                                               4.290 1.00 0.00
                                     -6.948
                  TYR A
                         33 147.344
            0
 ATOM 429
                                               3.999 1.00 0.00
                         33 144.472
                  TYR A
                                      -8.176
 ATOM 430
            CB
                                               3.366 1.00 0.00
                         33 143.246
                                      -8.794
                  TYR A
 ATOM 431
            CG
                                                3.508 1.00 0.00
                         33 142.976 -10.149
                  TYR A
 ATOM 432
             CD1
                                                2.625 1.00 0.00
                         33 142.360
                                     -8.023
                  TYR A
 ATOM 433
             CD2
                                                2.931 1.00 0.00
                         33 141.857 -10.718
 ATOM 434
             CE1
                  TYR A
                                                2.045 1.00 0.00
                         33 141.238 -8.584
             CE2
                  TYR A
 ATOM 435
                                                2.200 1.00 0.00
                         33 140.992
                                      -9.931
             CZ
                  TYR A
 ATOM 436
                         33 139.875 -10.494
                                                1.624 1.00 0.00
 ATOM 437
             OH
                  TYR A
                                                2.633 1.00 0.00
 ATOM 438
             H
                  TYR A
                          33 146.890 -8.911
                                                2.316 1.00 0.00
             HA
                  TYR A
                         33 144.781
                                      -6.890
  ATOM 439
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ATOM 440	1HB	TYR A	33 145.026	-8.963	4.486 1.00 0.00
ATOM 441	2HB	TYR A	33 144.141	-7.464	4.740 1.00 0.00
ATOM 442	HD1	TYR A	33 143.656 -	10.763	4.081 1.00 0.00
ATOM 443	HD2	TYR A	33 142.556	-6.968	2.505 1.00 0.00
ATOM 444	HE1	TYR A	33 141.663 -	11.774	3.053 1.00 0.00
ATOM 445	HE2	TYR A	33 140.561	-7.968	1.472 1.00 0.00
ATOM 446	HH	TYR A	33 140.098 -	-11.360	1.275 1.00 0.00
ATOM 447	N	GLY A	34 145.991	-5.237	3.739 1.00 0.00
ATOM 448	CA	GLY A	34 146.818	-4.253	4.412 1.00 0.00
ATOM 449	С	GLY A	34 146.029	-3.038	4.858 1.00 0.00
ATOM 450	0	GLY A	34 144.844	-2.911	4.549 1.00 0.00
ATOM 451	Н	GLY A	34 145.172	-4.955	3.281 1.00 0.00
ATOM 452	1HA	GLY A	34 147.272	-4.712	5.278 1.00 0.00
ATOM 453	2HA	GLY A	34 147.599	-3.933	3.737 1.00 0.00
ATOM 454	N	VAL A	35 146.687	-2.143	5.588 1.00 0.00
ATOM 455	CA	VAL A	35 146.038	-0.932	6.079 1.00 0.00
ATOM 456	С	VAL A	35 146.696	0.316	5.500 1.00 0.00
ATOM 457	0	VAL A	35 147.920	0.388	5.382 1.00 0.00
ATOM 458	CB	VAL A	35 146.078	-0.860	7.619 1.00 0.00
ATOM 459	CG1	. VAL A	35 147.514	-0.810	8.119 1.00 0.00
ATOM 460	CG2	VAL A	35 145.288	0.341	8.119 1.00 0.00
ATOM 461	Н	VAL A	35 147.629	-2.300	5.802 1.00 0.00
ATOM 462	HA	VAL A	35 145.004	-0.959	5.767 1.00 0.00
ATOM 463	HB	VAL A	35 145.616	-1.754	8.012 1.00 0.00
ATOM 464	1H(G1 VAL A	35 147.617	-1.449	8.984 1.00 0.00
ATOM 465	2H0	G1 VAL A	35 147.765	0.205	8.391 1.00 0.00
ATOM 466	3H(G1 VAL A	35 148.179	-1.148	7.339 1.00 0.00
ATOM 467	1H0	G2 VAL A	35 144.239	0.197	7.903 1.00 0.00
ATOM 468	2H	G2 VAL A	35 145.637	1.234	7.622 1.00 0.00

ATOM 469	3HG2 VAL A	35 145.425	0.444	9.185 1.00 0.00
ATOM 470	N ILE A	36 145.876	1.300	5.143 1.00 0.00
ATOM 471	CA ILE A	36 146.379	2.546	4.577 1.00 0.00
ATOM 472	C ILE A	36 147.308	3.255	5.558 1.00 0.00
ATOM 473	O ILE A	36 147.020	3.340	6.751 1.00 0.00
ATOM 474	CB ILE A	36 145.228	3.498	4.194 1.00 0.00
ATOM 475	CG1 ILE A	36 144.210	2.776	3.308 1.00 0.00
ATOM 476	CG2 ILE A	36 145.772	4.732	3.486 1.00 0.00
ATOM 477	CD1 ILE A	36 143.058	3.654	2.872 1.00 0.00
ATOM 478	H ILE A	36 144.911	1.184	5.262 1.00 0.00
ATOM 479	HA ILE A	36 146.934	2.305	3.681 1.00 0.00
ATOM 480	HB ILE A	36 144.741	3.820	5.102 1.00 0.00
ATOM 481	1HG1 ILE A	36 144.706	2.416	2.420 1.00 0.00
ATOM 482	2HG1 ILE A	36 143.801	1.936	3.852 1.00 0.00
ATOM 483	1HG2 ILE A	36 145.242	5.607	3.832 1.00 0.00
ATOM 484	2HG2 ILE A	36 145.632	4.626	2.420 1.00 0.00
ATOM 485	3HG2 ILE A	36 146.824	4.838	3.702 1.00 0.00
ATOM 486	1HD1 ILE A	36 142.131	3.246	3.251 1.00 0.00
ATOM 487	2HD1 ILE A	36 143.021	3.690	1.794 1.00 0.00
ATOM 488	3HD1 ILE A	36 143.197	4.651	3.263 1.00 0.00
ATOM 489	N ARG A	37 148.425	3.761	5.045 1.00 0.00
ATOM 490	CA ARG	A 37 149.398	4.463	5.876 1.00 0.00
ATOM 491	C ARG	A 37 149.620	5.885	5.372 1.00 0.00
ATOM 492	O ARG	A 37 149.301	6.854	6.060 1.00 0.00
ATOM 493	CB ARG	A 37 150.725	3.703	5.895 1.00 0.00
ATOM 494	CG ARG	A 37 150.572	2.216	6.176 1.00 0.00
ATOM 495	CD ARG	A 37 150.497	1.937	7.668 1.00 0.00
ATOM 496	NE ARG	A 37 149.266	2.455	8.261 1.00 0.00
ATOM 497	CZ ARG	A 37 149.103	2.662	9.566 1.00 0.00

ATOM 498	NH1 ARG A	37 150.087	2.396	10.417 1.00 0.00
ATOM 499	NH2 ARG A	37 147.951	3.135	10.023 1.00 0.00
ATOM 500	H ARG A	37 148.601	3.660	4.086 1.00 0.00
ATOM 501	HA ARG A	37 149.005	4.507	6.880 1.00 0.00
ATOM 502	1HB ARG A	37 151.206	3.817	4.934 1.00 0.00
ATOM 503	2HB ARG A	37 151.359	4.128	6.658 1.00 0.00
ATOM 504	1HG ARG A	37 149.665	1.864	5.709 1.00 0.00
ATOM 505	2HG ARG A	37 151.421	1.692	5.762 1.00 0.00
ATOM 506	1HD ARG A	37 150.539	0.870	7.824 1.00 0.00
ATOM 507	2HD ARG A	37 151.343	2.404	8.151 1.00 0.00
ATOM 508	HE ARG A	37 148.523	2.659	7.656 1.00 0.00
ATOM 509	1HH1 ARG A	37 150.957	2.038	10.079 1.00 0.00
ATOM 510	2HH1 ARG A	37 149.958	2.554	11.395 1.00 0.00
ATOM 511	1HH2 ARG A	37 147.206	3.338	9.387 1.00 0.00
ATOM 512	2HH2 ARG A	37 147.828	3.291	11.003 1.00 0.00
ATOM 513	N TRP A	38 150.168	6.003	4.168 1.00 0.00
ATOM 514	CA TRP A	38 150.433	7.308	3.573 1.00 0.00
ATOM 515	C TRP A	38 149.677	7.472	2.256 1.00 0.00
ATOM 516	O TRP A	38 149.724	6.600	1.389 1.00 0.00
ATOM 517	CB TRP A	38 151.937	7.494	3.343 1.00 0.00
ATOM 518	CG TRP A	38 152.271	8.679	2.486 1.00 0.00
ATOM 519	CD1 TRP	A 38 152.549	9.947	2.909 1.00 0.00
ATOM 520	CD2 TRP	A 38 152.356	8.706	1.056 1.00 0.00
ATOM 521	NE1 TRP	A 38 152.802	10.760	1.830 1.00 0.00
ATOM 522	CE2 TRP	A 38 152.689	10.021	0.681 1.00 0.00
ATOM 523	CE3 TRP	A 38 152.183	7.745	0.057 1.00 0.00
ATOM 524	CZ2 TRP	A 38 152.852	10.398	-0.650 1.00 0.00
ATOM 525	CZ3 TRP	A 38 152.345	8.119	-1.263 1.00 0.00
ATOM 526	CH2 TRP	A 38 152.676	9.435	-1.607 1.00 0.00

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ATOM 527	H T	RP A	38 15	0.401	5.193		.00 0.00	
ATOM 528	HA T	RP A	38 15	0.089	8.062		.00 0.00	
ATOM 529	1HB T	RP A	38 15	2.427	7.624		.00 0.00	
ATOM 530	2HB T	RP A	38 15	52.331	6.611		.00 0.00	
ATOM 531	HD1 T	RP A	38 15	52.564	10.253	3.945 1	00 0.00	
ATOM 532	HE1 T	RP A	38 15	53.026	11.713	1.876	1.00 0.00	
ATOM 533	HE3 7	TRP A	38 1	51.927	6.725	0.301	1.00 0.00	
ATOM 534	HZ2	TRP A	38 1	53.105	11.409	-0.931	1.00 0.00	
ATOM 535	HZ3	TRP A	38 1	52.214	7.389	-2.050	1.00 0.00	
ATOM 536	нн2 ′	TRP A	38 1	52.793	9.683	-2.653	1.00 0.00	
ATOM 537	N	ILE A	39 1	48.993	8.601	2.114	1.00 0.00	
ATOM 538	CA	ILE A	39 1	48.236	8.890	0.902	1.00 0.00	
ATOM 539	С	ILE A	39 1	48.716	10.190	0.268	1.00 0.00	
ATOM 540	0	ILE A	39 1	148.434	11.278	0.771	1.00 0.00	
ATOM 541	CB	ILE A	39	146.726	8.999	1.193	1.00 0.00	
ATOM 542	CG1	ILE A	39	146.253	7.793	2.006	1.00 0.00	
ATOM 543	CG2	ILE A	39	145.943	9.110	-0.106	1.00 0.00	
ATOM 544	CD1	ILE A	39	144.821	7.908	2.482	1.00 0.00	
ATOM 545	H	ILE A	. 39	149.002	9.259	2.839	1.00 0.00	ı
ATOM 546	HA	ILE A	. 39	148.392	8.079	0.207	1.00 0.00	į
ATOM 547	HB	ILE A	39	146.556	9.898	1.765	1.00 0.00)
ATOM 548	1HG1	ILE A	39	146.329	6.904	1.398	3 1.00 0.00)
ATOM 549	2HG1	ILE A	39	146.885	7.682	2.876	3 1.00 0.00)
ATOM 550	1HG2	ILE A	A 39	146.511	8.664	-0.909	1.00 0.00)
ATOM 551	2HG2	ILE A	A 39	145.76	1 10.151	-0.328	3 1.00 0.00	0
ATOM 552	2 3HG2	E ILE	A 39	145.000	8.593	-0.00	3 1.00 0.00	0
ATOM 553	3 1HD	I ILE	A 39	144.80	4 8.363	3.46	2 1.00 0.00	0
ATOM 554	4 2HD	ILE.	A 39	144.37	9 6.92	2.53	4 1.00 0.0	0
ATOM 55	5 3HD	1 ILE	A 39	144.26	1 8.520	1.79	0 1.00 0.0	0

ATOM 556	N	GLY A	40	149.446	10.073	-0.836 1.00 0.00
ATOM 557	CA	GLY A	40	149.956	11.250	-1.512 1.00 0.00
ATOM 558	С	GLY A	40	150.450	10.954	-2.913 1.00 0.00
ATOM 559	0	GLY A	40	150.200	9.877	-3.455 1.00 0.00
ATOM 560	Н	GLY A	40	149.644	9.181	-1.192 1.00 0.00
ATOM 561	1HA	GLY A	40	149.172	11.988	-1.567 1.00 0.00
ATOM 562	2HA	GLY A	40	150.774	11.655	-0.934 1.00 0.00
ATOM 563	N	GLN A	41	151.151	11.918	-3.503 1.00 0.00
ATOM 564	CA	GLN A	41	151.682	11.767	-4.850 1.00 0.00
ATOM 565	С	GLN A	41	153.178	12.077	-4.881 1.00 0.00
ATOM 566	0	GLN A	41	153.587	13.211	-4.627 1.00 0.00
ATOM 567	CB	GLN A	41	150.936	12.694	-5.810 1.00 0.00
ATOM 568	CG	GLN A	41	149.424	12.612	-5.681 1.00 0.00
ATOM 569	CD	GLN A	41	148.756	13.969	-5.779 1.00 0.00
ATOM 570	0E1	GLN A	41	148.808	14.769	-4.846 1.00 0.00
ATOM 571	NE2	GLN A	41	148.124	14.235	-6.916 1.00 0.00
ATOM 572	H	GLN A	41	151.313	12.753	-3.019 1.00 0.00
ATOM 573	HA	GLN A	41	151.527	10.744	-5.158 1.00 0.00
ATOM 574	1HE	GLN A	41	151.236	13.711	-5.614 1.00 0.00
ATOM 575	2HE	GLN A	41	151.205	12.436	-6.822 1.00 0.00
ATOM 576	1H(G GLN	A 41	149.040	11.982	-6.470 1.00 0.00
ATOM 577	2H	G GLN	A 4.	1 149.179) 12.175	-4.724 1.00 0.00
ATOM 578	1H	E2 GLN .	A 4	1 148.124	13.549	-7.616 1.00 0.00
ATOM 579	2H	E2 GLN	A 4	1 147.68	5 15.106	5 -7.009 1.00 0.00
ATOM 580	N	PRO	A 4	2 154.02	0 11.075	5 -5.191 1.00 0.00
ATOM 581	CA	PRO	A 4	2 155.47	5 11.257	7 -5.248 1.00 0.00
ATOM 582	C			2 155.88		8 -6.233 1.00 0.00
ATOM 583	0	PRO				6 -7.128 1.00 0.00
ATOM 584	CE	PRO	A 4	2 155.99	4 9.89	3 -5.715 1.00 0.00

ATOM 585	CG :	PRO A 42	2 154.914	8.931	-5.358 1.00 0.00
ATOM 586	CD	PRO A 42	2 153.628	9.690	-5.508 1.00 0.00
ATOM 587	HA	PRO A 42	2 155.882	11.485	-4.274 1.00 0.00
ATOM 588	1HB	PRO A 42	2 156.167	9.916	-6.781 1.00 0.00
ATOM 589	2HB	PRO A 42	2 156.914	9.659	-5.200 1.00 0.00
ATOM 590	1HG	PRO A 4	2 154.933	8.088	-6.033 1.00 0.00
ATOM 591	2HG	PRO A 4	2 155.037	8.600	-4.338 1.00 0.00
ATOM 592	1HD	PRO A 4	2 153.259	9.615	-6.520 1.00 0.00
ATOM 593	2HD	PRO A 4	2 152.890	9.327	-4.806 1.00 0.00
ATOM 594	N	PRO A 4	3 157.103	12.891	-6.082 1.00 0.00
ATOM 595	CA	PRO A 4	3 157.611	13.946	-6.963 1.00 0.00
ATOM 596	С	PRO A	13 157.953	13.424	-8.354 1.00 0.00
ATOM 597	0	PRO A	13 159.092	13.042	-8.621 1.00 0.00
ATOM 598	CB	PRO A	13 158.874	14.427	-6.250 1.00 0.00
ATOM 599	CG	PRO A	43 159.327	13.252	-5.454 1.00 0.00
ATOM 600	CD	PRO A	43 158.079	12.520	-5.041 1.00 0.00
ATOM 601	HA	PRO A	43 156.908	14.763	-7.049 1.00 0.00
ATOM 602	1HB	PRO A	43 159.613	14.718	-6.982 1.00 0.00
ATOM 603	2HB	PRO A	43 158.636	15.266	-5.615 1.00 0.00
ATOM 604	1HG	PRO A	43 159.951	12.615	-6.063 1.00 0.00
ATOM 605	2HG	PRO A	43 159.871	13.587	-4.583 1.00 0.00
ATOM 606	1HD	PRO A	43 158.252	2 11.454	-5.037 1.00 0.00
ATOM 607	2HD	PRO A	43 157.75	12.855	-4.068 1.00 0.00
ATOM 608	N	GLY A	44 156.960) 13.410	-9.236 1.00 0.00
ATOM 609	CA	GLY A	44 157.179	9 12.932	2 -10.588 1.00 0.00
ATOM 610	C	GLY A	44 155.90	1 12.47	1 -11.257 1.00 0.00
ATOM 611	. 0	GLY A	44 155.59	5 12.88	5 -12.375 1.00 0.00
ATOM 612	e H	GLY A	44 156.07	2 13.72	5 -8.968 1.00 0.00
ATOM 613	3 1H/	A GLY A	44 157.61	2 13.72	8 -11.173 1.00 0.00

12.105 -10.556 1.00 0.00 44 157.875 GLY A 2HA ATOM 614 11.611 -10.574 1.00 0.00 45 155.154 N LEU A ATOM 615 11.095 -11.112 1.00 0.00 45 153.902 LEU A ATOM 616 CA 11.431 -10.190 1.00 0.00 45 152.735 C LEU A ATOM 617 10.916 -9.076 1.00 0.00 45 152.647 LEU A 0 ATOM 618 9.580 -11.306 1.00 0.00 45 153.993 LEU A ATOM 619 CB 8.806 -10.099 1.00 0.00 45 154.530 CG LEU A ATOM 620 7.352 -10.154 1.00 0.00 LEU A 45 154.083 ATOM 621 CD1 8.900 -10.039 1.00 0.00 45 156.049 LEU A ATOM 622 CD2 $-9.685 \ 1.00 \ 0.00$ 11.319 45 155.450 ATOM 623 Η LEU A 11.562 -12.070 1.00 0.00 45 153.734 ATOM 624 HA LEU A 9.208 -11.537 1.00 0.00 LEU A 45 153.006 ATOM 625 1HB 9.384 -12.147 1.00 0.00 45 154.640 LEU A 2HB ATOM 626 9.243 -9.196 1.00 0.00 45 154.131 HG LEU A ATOM 627 -9.341 1.00 0.00 7.155 45 153.399 1HD1 LEU A ATOM 628 6.705 -10.064 1.00 0.00 45 154.943 2HD1 LEU A ATOM 629 7.161 -11.094 1.00 0.00 45 153.587 3HD1 LEU A ATOM 630 7.939 -10.273 1.00 0.00 1HD2 LEU A 45 156.481 ATOM 631 9.197 -9.044 1.00 0.00 45 156.351 2HD2 LEU A ATOM 632 9.634 -10.752 1.00 0.00 3HD2 LEU A 45 156.395 ATOM 633 12.293 -10.660 1.00 0.00 46 151.839 ASN A ATOM 634 N -9.866 1.00 0.00 46 150.682 12.685 ASN A ATOM 635 CA -9.807 1.00 0.00 11.550 ASN A 46 149.666 ATOM 636 C 11.253 -10.792 1.00 0.00 46 148.992 ATOM 637 0 ASN A 13.937 -10.460 1.00 0.00 46 150.034 ASN A CB ATOM 638 14.797 -9.406 1.00 0.00 46 149.364 ASN A CG ATOM 639 -8.426 1.00 0.00 15.199 46 149.991 ASN A ATOM 640 OD1 15.083 -9.604 1.00 0.00 ATOM 641 46 148.083 ND2 ASN A 12.670 -11.556 1.00 0.00 46 151.958 H ASN A ATOM 642

ATOM 643	HA	ASN A	46 151.023	12.904 -8.865 1.00 0.00
ATOM 644	1HB	ASN A	46 150.792	14.529 -10.950 1.00 0.00
ATOM 645	2HB	ASN A	46 149.290	13.640 -11.184 1.00 0.00
ATOM 646	1HD2	ASN A	46 147.648	14.729 -10.408 1.00 0.00
ATOM 647	2HD2	ASN A	46 147.625	15.639 -8.939 1.00 0.00
ATOM 648	N	GLU A	47 149.563	10.920 -8.642 1.00 0.00
ATOM 649	CA	GLU A	47 148.631	9.817 -8.447 1.00 0.00
ATOM 650	C	GLU A	47 148.480	9.494 -6.965 1.00 0.00
ATOM 651	0	GLU A	47 149.455	9.161 -6.291 1.00 0.00
ATOM 652	CB	GLU A	47 149.104	8.574 -9.206 1.00 0.00
ATOM 653	CG	GLU A	47 150.611	8.372 -9.178 1.00 0.00
ATOM 654	CD	GLU A	47 151.090	7.413 -10.250 1.00 0.00
ATOM 655	OE1	GLU A	47 151.384	6.246 -9.915 1.00 0.00
ATOM 656	OE2	GLU A	47 151.171	7.829 -11.425 1.00 0.00
ATOM 657	Н	GLU A	47 150.130	11.205 -7.896 1.00 0.00
ATOM 658	HA	GLU A	47 147.671	10.122 -8.836 1.00 0.00
ATOM 659	1HB	GLU A	47 148.638	7.703 -8.771 1.00 0.00
ATOM 660	2HB	GLU A	47 148.793	8.658 -10.237 1.00 0.00
ATOM 661	1HG	GLU A	47 151.093	9.326 -9.329 1.00 0.00
ATOM 662	2HG	GLU A	47 150.892	7.978 -8.212 1.00 0.00
ATOM 663	N	VAL A	48 147.255	9.585 -6.461 1.00 0.00
ATOM 664	CA	VAL A	48 146.988	9.294 -5.059 1.00 0.00
ATOM 665	С	VAL A	48 147.302	7.836 -4.743 1.00 0.00
ATOM 666	0	VAL A	48 146.505	6.943 -5.029 1.00 0.00
ATOM 667	СВ	VAL A	48 145.522	9.585 -4.689 1.00 0.00
ATOM 668	CG1	VAL A	48 145.318	9.474 -3.186 1.00 0.00
ATOM 669	CG2	VAL A	48 145.10	8 10.959 -5.192 1.00 0.00
ATOM 670	Н	VAL A	48 146.51	4 9.850 -7.045 1.00 0.00
ATOM 671	HA	VAL A	48 147.62	5 9.928 -4.458 1.00 0.00

ATOM 672	HB VAL A	48 144.897	8.846 -	5.169 1.00 0.00
ATOM 673	1HG1 VAL A	48 145.394	8.440 -	2.887 1.00 0.00
ATOM 674	2HG1 VAL A	48 144.339	9.853 -	2.928 1.00 0.00
ATOM 675	3HG1 VAL A	48 146.073	10.054 -	-2.677 1.00 0.00
ATOM 676	1HG2 VAL A	48 144.413	11.403 -	-4.495 1.00 0.00
ATOM 677	2HG2 VAL A	48 144.636	10.861	-6.158 1.00 0.00
ATOM 678	3HG2 VAL A	48 145.981	11.589	-5.280 1.00 0.00
ATOM 679	n LEU A	49 148.472	7.601	-4.156 1.00 0.00
ATOM 680	CA LEU A	49 148.892	6.250	-3.807 1.00 0.00
ATOM 681	C LEU A	49 148.847	6.042	-2.299 1.00 0.00
ATOM 682	O LEU A	49 149.562	6.707	-1.549 1.00 0.00
ATOM 683	CB LEU A	49 150.306	5.982	-4.327 1.00 0.00
ATOM 684	CG LEU A	49 150.455	6.034	-5.849 1.00 0.00
ATOM 685	CD1 LEU A	49 151.876	6.420	-6.232 1.00 0.00
ATOM 686	CD2 LEU A	49 150.080	4.696	-6.467 1.00 0.00
ATOM 687	H LEU A	49 149.066	8.354	-3.954 1.00 0.00
ATOM 688	HA LEU A	49 148.208	5.558	-4.274 1.00 0.00
ATOM 689	1HB LEU A	49 150.971	6.715	-3.896 1.00 0.00
ATOM 690	2HB LEU A	49 150.610	5.002	-3.992 1.00 0.00
ATOM 691	HG LEU A	49 149.787	6.786	-6.245 1.00 0.00
ATOM 692	1HD1 LEU A	49 152.135	7.354	-5.757 1.00 0.00
ATOM 693	2HD1 LEU A	49 151.942	6.530	-7.304 1.00 0.00
ATOM 694	3HD1 LEU	49 152.559	5.649	-5.906 1.00 0.00
ATOM 695	1HD2 LEU	A 49 149.173	4.330	-6.007 1.00 0.00
ATOM 696	2HD2 LEU .	A 49 150.878	3.987	-6.303 1.00 0.00
ATOM 697	3HD2 LEU	A 49 149.920	4.821	-7.527 1.00 0.00
ATOM 698	N ALA	A 50 148.00	5.118	-1.861 1.00 0.00
ATOM 699	CA ALA	A 50 147.865	5 4.827	-0.441 1.00 0.00
ATOM 700	C ALA	A 50 148.80	2 3.700	-0.019 1.00 0.00

ATOM 701	0	ALA A	50 148.655	2.561	-0.462 1.00 0.00
ATOM 702	СВ	ALA A	50 146.423	4.471	-0.111 1.00 0.00
ATOM 703	Н	ALA A	50 147.456	4.621	-2.506 1.00 0.00
ATOM 704	HA	ALA A	50 148.124	5.723	0.106 1.00 0.00
ATOM 705	1HB	ALA A	50 146.405	3.738	0.682 1.00 0.00
ATOM 706	2HB	ALA A	50 145.943	4.063	-0.988 1.00 0.00
ATOM 707	ЗНВ	ALA A	50 145.896	5.358	0.208 1.00 0.00
ATOM 708	N	GLY A	51 149.764	4.024	0.838 1.00 0.00
ATOM 709	CA	GLY A	51 150.710	3.029	1.304 1.00 0.00
ATOM 710	С	GLY A	51 150.071	2.011	2.229 1.00 0.00
ATOM 711	0	GLY A	51 149.790	2.310	3.390 1.00 0.00
ATOM 712	Н	GLY A	51 149.832	4.950	1.156 1.00 0.00
ATOM 713	1HA	GLY A	51 151.122	2.512	0.450 1.00 0.00
ATOM 714	2HA	GLY A	51 151.510	3.526	1.830 1.00 0.00
ATOM 715	N	LEU A	52 149.841	0.808	1.715 1.00 0.00
ATOM 716	CA	LEU A	52 149.231	-0.256	2.503 1.00 0.00
ATOM 717	С	LEU A	52 150.296	-1.119	3.171 1.00 0.00
ATOM 718	0	LEU A	52 151.352	-1.377	2.594 1.00 0.00
ATOM 719	CB	LEU A	52 148.333	-1.124	1.619 1.00 0.00
ATOM 720	CG	LEU A	52 147.158	-0.390	0.972 1.00 0.00
ATOM 721	CD1	LEU A	52 146.581	-1.211	-0.171 1.00 0.00
ATOM 722	CD2	LEU A	52 146.085	-0.087	2.006 1.00 0.00
ATOM 723	Н	LEU A	52 150.088	0.631	0.782 1.00 0.00
ATOM 724	HA	LEU A	52 148.627	0.206	3.271 1.00 0.00
ATOM 725	1HE	B LEU A	52 148.942	-1.551	0.835 1.00 0.00
ATOM 726	2HE	B LEU A	52 147.938	-1.928	2.223 1.00 0.00
ATOM 727	HG	LEU A	52 147.507	0.548	0.565 1.00 0.00
ATOM 728	1HI)1 LEU A	52 145.819	-1.874	0.211 1.00 0.00
ATOM 729	2HI)1 LEU A	52 147.367	-1.793	-0.630 1.00 0.00

ATOM 730	3HD1 LEU	J A 52	146.147	-0.550	-0.906 1.00 0.00
ATOM 731	1HD2 LEU	J A 52	145.114	-0.103	1.534 1.00 0.00
ATOM 732	2HD2 LEU	J A 52	146.261	0.891	2.432 1.00 0.00
ATOM 733	3HD2 LEU	JA 52	146.118	-0.831	2.789 1.00 0.00
ATOM 734	N GL	UA 53	150.010	-1.565	4.390 1.00 0.00
ATOM 735	CA GL	U A 53	150.943	-2.400	5.137 1.00 0.00
ATOM 736	C GL	UA 53	3 150.426	-3.831	5.244 1.00 0.00
ATOM 737	O GL	U A 53	3 149.452	-4.099	5.948 1.00 0.00
ATOM 738	CB GL	U A 53	3 151.171	-1.823	6.535 1.00 0.00
ATOM 739	CG GL	U A 5	3 152.170	-2.613	7.365 1.00 0.00
ATOM 740	CD GL	U A 5	3 151.776	-2.697	8.827 1.00 0.00
ATOM 741	OE1 GI	JU A 5	3 152.274	-3.607	9.524 1.00 0.00
ATOM 742	OE2 GI	JUA 5	3 150.970	-1.856	9.275 1.00 0.00
ATOM 743	H GI	LUA 5	3 149.151	-1.326	4.797 1.00 0.00
ATOM 744	HA G	LUA 5	3 151.882	-2.409	4.604 1.00 0.00
ATOM 745	1HB G	LU A 5	3 151.536	-0.811	6.440 1.00 0.00
ATOM 746	2HB G	LU A 5	3 150.229	-1.809	7.064 1.00 0.00
ATOM 747	1HG G	LU A 5	3 152.236	3.615	6.968 1.00 0.00
ATOM 748	2HG G	LU A	53 153.135	5 –2.134	7.295 1.00 0.00
ATOM 749	N L	EU A	54 151.083	3 -4.747	4.540 1.00 0.00
ATOM 750	CA I	EU A	54 150.69	0 -6.152	4.556 1.00 0.00
ATOM 751	C I	EU A	54 150.93	6 -6.770	5.929 1.00 0.00
ATOM 752	0 I	EU A	54 151.98	7 –6.563	6.535 1.00 0.00
ATOM 753	CB I	LEU A	54 151.46	0 -6.929	3.488 1.00 0.00
ATOM 754	CG 3	LEU A	54 151.43	4 -6.30	9 2.090 1.00 0.00
ATOM 755	CD1	LEU A	54 152.56	-6.86	9 1.236 1.00 0.00
ATOM 756	CD2	LEU A	54 150.08	37 -6.55	2 1.425 1.00 0.00
ATOM 757	Н	LEU A	54 151.85	52 -4.47	2 3.997 1.00 0.00
ATOM 758	HA	LEU A	54 149.63	35 -6.20	2 4.335 1.00 0.00

ATOM 759	1HB	LEU A	54	152.490	-7.011	3.805 1.00 0.00
ATOM 760	2HB	LEU A	54	151.042	-7.922	3.424 1.00 0.00
ATOM 761	HG	LEU A	54	151.578	-5.241	2.175 1.00 0.00
ATOM 762	1HD1	LEU A	54	153.480	-6.863	1.804 1.00 0.00
ATOM 763	2HD1	LEU A	54	152.680	-6.260	0.352 1.00 0.00
ATOM 764	3HD1	LEU A	54	152.324	-7.882	0.947 1.00 0.00
ATOM 765	1HD2	LEU A	54	149.633	-7.438	1.847 1.00 0.00
ATOM 766	2HD2	LEU A	54	150.229	-6.692	0.364 1.00 0.00
ATOM 767	3HD2	LEU A	54	149.443	-5.702	1.595 1.00 0.00
ATOM 768	N	GLU A	55	149.958	-7.528	6.413 1.00 0.00
ATOM 769	CA	GLU A	55	150.067	-8.176	7.715 1.00 0.00
ATOM 770	С	GLU A	55	151.139	-9.261	7.696 1.00 0.00
ATOM 771	0	GLU A	55	5 151.836	-9.478	8.686 1.00 0.00
ATOM 772	CB	GLU A	55	5 148.722	-8.779	8.123 1.00 0.00
ATOM 773	CG	GLU A	55	5 147.657	-7.739	8.430 1.00 0.00
ATOM 774	CD	GLU A	5	5 146.711	-7.512	7.268 1.00 0.00
ATOM 775	OE1	GLU A	5	5 146.763	-6.420	6.663 1.00 0.00
ATOM 776	0E2	GLU A	5	5 145.916	-8.426	6.962 1.00 0.00
ATOM 777	Н	GLU A	5	5 149.144	-7.655	5.884 1.00 0.00
ATOM 778	HA	GLU A	5	5 150.347	-7.424	8.437 1.00 0.00
ATOM 779	1HB	GLU A	5	5 148.361	-9.404	7.319 1.00 0.00
ATOM 780	2HB	GLU A	5	5 148.864	-9.388	9.003 1.00 0.00
ATOM 781	1HG	GLU A	5	55 147.083	-8.069	9.283 1.00 0.00
ATOM 782	2H0	GLU A	. 5	55 148.143	3 -6.803	8.667 1.00 0.00
ATOM 783	N	ASP A	. 5	66 151.263	3 -9.943	6.561 1.00 0.00
ATOM 784	CA	ASP A		56 152.25	1 -11.006	6.412 1.00 0.00
ATOM 785	С	ASP A		56 153.44	6 -10.528	5.596 1.00 0.00
ATOM 786	0	ASP A	. !	56 153.28	5 -9.897	4.551 1.00 0.00
ATOM 787	CB	ASP A	1	56 151.61	7 -12.228	5.745 1.00 0.00

ATOM 788	CG	ASP A	56 151.036 -13.201	6.753 1.00 0.00
ATOM 789	OD1	ASP A	56 149.897 -13.665	6.541 1.00 0.00
ATOM 790	OD2	ASP A	56 151.722 -13.498	7.754 1.00 0.00
ATOM 791	Н	ASP A	56 150.678 -9.724	5.806 1.00 0.00
ATOM 792	HA	ASP A	56 152.591 -11.281	7.399 1.00 0.00
ATOM 793	1HB	ASP A	56 150.825 -11.902	5.089 1.00 0.00
ATOM 794	2HB	ASP A	56 152.370 -12.744	5.167 1.00 0.00
ATOM 795	N	GLU A	57 154.646 -10.834	6.078 1.00 0.00
ATOM 796	CA	GLU A	57 155.870 -10.436	5.392 1.00 0.00
ATOM 797	С	GLU A	57 155.928 -11.034	3.991 1.00 0.00
ATOM 798	0	GLU A	57 156.352 -12.176	3.810 1.00 0.00
ATOM 799	CB	GLU A	57 157.095 -10.872	6.197 1.00 0.00
ATOM 800	CG	GLU A	57 157.104 -10.349	7.624 1.00 0.00
ATOM 801	CD	GLU A	57 156.564 -11.358	8.618 1.00 0.00
ATOM 802	OE1	GLU A	57 156.945 -11.284	9.805 1.00 0.00
ATOM 803	OE2	GLU A	57 155.759 -12.221	8.210 1.00 0.00
ATOM 804	Н	GLU A	57 154.710 -11.339	6.915 1.00 0.00
ATOM 805	HA	GLU A	57 155.869 -9.359	5.311 1.00 0.00
ATOM 806	1HB	GLU A	57 157.123 -11.951	6.233 1.00 0.00
ATOM 807	2HB	GLU A	57 157.985 -10.514	5.700 1.00 0.00
ATOM 808	1HG	GLU A	57 158.120 -10.105	7.898 1.00 0.00
ATOM 809	2HG	GLU A	57 156.496 -9.458	7.671 1.00 0.00
ATOM 810	N	CYS A	58 155.499 -10.256	3.003 1.00 0.00
ATOM 811	CA	CYS A	58 155.502 -10.709	1.617 1.00 0.00
ATOM 812	С	CYS A	58 156.853 -10.442	0.960 1.00 0.00
ATOM 813	0	CYS A	A 58 157.328 -9.307	0.933 1.00 0.00
ATOM 814	CB	CYS A	A 58 154.392 -10.013	0.828 1.00 0.00
ATOM 815	SG	CYS A	A 58 154.271 -10.539	-0.897 1.00 0.00
ATOM 816	Н	CYS A	A 58 155.173 -9.355	3.210 1.00 0.00

ATOM 817	HA	CYS A	58 155.319 -13	1.773	1.616 1.00 0.00	
ATOM 818	1HB	CYS A	58 153.443 -10). 217	1.300 1.00 0.00	
ATOM 819	2HB	CYS A	58 154.570 -	3.947	0.835 1.00 0.00	ł
ATOM 820	HG	CYS A	58 154.021 -1	1.467	-0.907 1.00 0.00)
ATOM 821	N	ALA A	59 157.466 -1	1.496	0.431 1.00 0.00)
ATOM 822	CA	ALA A	59 158.762 -1	1.375	-0.226 1.00 0.00)
ATOM 823	С	ALA A	59 158.686 -1	0.433	-1.423 1.00 0.00)
ATOM 824	. 0	ALA A	59 157.969 -1	0.698	-2.389 1.00 0.00)
ATOM 825	CB	ALA A	59 159.262 -1	2.744	-0.661 1.00 0.00)
ATOM 826	H	ALA A	59 157.037 -1	2.376	0.483 1.00 0.00)
ATOM 827	HA	ALA A	59 159.463 -1	0.974	0.491 1.00 0.00)
ATOM 828	1HB	ALA A	59 160.333 -1	2.710	-0.800 1.00 0.00)
ATOM 829	2HB	ALA A	59 158.788 -1	3.021	-1.592 1.00 0.00)
ATOM 830	ЗНВ	ALA A	59 159.020 -1	3.474	0.097 1.00 0.00)
ATOM 831	N	GLY A	60 159.428 -	9.334	-1.352 1.00 0.00	0
ATOM 832	CA	GLY A	60 159.430 -	-8.369	-2.437 1.00 0.00	0
ATOM 833	С	GLY A	60 158.687 -	-7.096	-2.082 1.00 0.0	0
ATOM 834	0	GLY A	60 157.935 -	-6.561	-2.896 1.00 0.0	0
ATOM 835	H	GLY A	60 159.979 -	-9.176	-0.558 1.00 0.0	0
ATOM 836	1HA	GLY A	60 160.452	-8.119	-2.680 1.00 0.0	0
ATOM 837	2HA	GLY A	60 158.963	-8.816	-3.302 1.00 0.0	0
ATOM 838	N	CYS A	61 158.897	-6.610	-0.863 1.00 0.0	0
ATOM 839	CA	CYS A	61 158.240	-5.392	-0.402 1.00 0.0	0
ATOM 840	С	CYS A	61 159.222	-4.494	0.343 1.00 0.0	0
ATOM 841	0	CYS A	61 160.342	-4.903	0.652 1.00 0.0	0
ATOM 842	CB	CYS A	61 157.058	-5.738	0.505 1.00 0.0	0(
ATOM 843	SG	CYS A	61 155.845	-6.842	-0.254 1.00 0.0)()
ATOM 844	H	CYS A	61 159.508	-7.081	-0.258 1.00 0.0)0
ATOM 845	HA	CYS A	61 157.875	-4.863	-1.270 1.00 0.0)()

ATOM 846	1HB	CYS A	61 157.427	-6.219	1.397 1.00 0.00
ATOM 847	2HB	CYS A	61 156.547	-4.826	0.779 1.00 0.00
ATOM 848	HG	CYS A	61 154.969	-6.511	-0.042 1.00 0.00
ATOM 849	N	THR A		-3.268	0.629 1.00 0.00
ATOM 850	CA	THR A	62 159.637		
			62 159.197		
ATOM 851	C	THR A			
ATOM 852	0	THR A	62 158.253		
ATOM 853	CB	THR A	62 159.591		
ATOM 854	0G1	THR A	62 158.350	-0.308	0.879 1.00 0.00
ATOM 855	CG2	THR A	62 159.791	-1.031	-0.853 1.00 0.00
ATOM 856	H	THR A	62 157.894	-3.000	0.357 1.00 0.00
ATOM 857	HA	THR A	62 160.651	-2.682	1.316 1.00 0.00
ATOM 858	HB	THR A	62 160.376	-0.325	1.050 1.00 0.00
ATOM 859	HG1	THR A	62 157.639	-0.850	0.529 1.00 0.00
ATOM 860	1HG2	2 THR A	62 158.928	-1.498	-1.305 1.00 0.00
ATOM 861	2HG2	2 THR A	62 160.671	-1.618	-1.067 1.00 0.00
ATOM 862	3HG	2 THR A	62 159.913	-0.036	-1.254 1.00 0.00
ATOM 863	N	ASP A	63 159.886	-1.310	3.533 1.00 0.00
ATOM 864	CA	ASP A	63 159.564	-1.083	4.937 1.00 0.00
ATOM 865	С	ASP A	63 158.915	0.283	5.133 1.00 0.00
ATOM 866	0	ASP A	63 159.079	0.916	6.177 1.00 0.00
ATOM 867	CB	ASP A	63 160.827	-1.189	5.794 1.00 0.00
ATOM 868	CG	ASP A	63 161.869	-0.155	5.418 1.00 0.00
ATOM 869	0D1	ASP A	63 162.279	0.624	6.304 1.00 0.00
ATOM 870	0D2	ASP A	63 162.277	-0.124	4.237 1.00 0.00
ATOM 871	Н	ASP A	63 160.627	-0.815	3.126 1.00 0.00
ATOM 872	HA	ASP A	63 158.866	-1.847	5.245 1.00 0.00
ATOM 873	1HE	ASP A	63 160.564	-1.046	6.832 1.00 0.00
ATOM 874	2HE	ASP A	63 161.258	-2.171	5.668 1.00 0.00

ATOM 875	N	GLY A	64 158.180	0.734	4.122 1.00 0.00
ATOM 876	CA	GLY A	64 157.517	2.023	4.204 1.00 0.00
ATOM 877	С	GLY A	64 158.203	3.081	3.362 1.00 0.00
ATOM 878	0	GLY A	64 158.146	4.269	3.680 1.00 0.00
ATOM 879	Н	GLY A	64 158.085	0.187	3.315 1.00 0.00
ATOM 880	1HA	GLY A	64 156.498	1.913	3.865 1.00 0.00
ATOM 881	2HA	GLY A	64 157.511	2.347	5.233 1.00 0.00
ATOM 882	N	THR A	65 158.852	2.650	2.285 1.00 0.00
ATOM 883	CA	THR A	65 159.552	3.569	1.395 1.00 0.00
ATOM 884	С	THR A	65 159.130	3.350	-0.054 1.00 0.00
ATOM 885	0	THR A	65 159.318	2.267	-0.609 1.00 0.00
ATOM 886	CB	THR A	65 161.065	3.392	1.530 1.00 0.00
ATOM 887	OG1	THR A	65 161.396	2.023	1.693 1.00 0.00
ATOM 888	CG2	THR A	65 161.654	4.148	2.700 1.00 0.00
ATOM 889	Н	THR A	65 158.861	1.690	2.085 1.00 0.00
ATOM 890	HA	THR A	65 159.290	4.576	1.685 1.00 0.00
ATOM 891	HB	THR A	65 161.541	3.751	0.629 1.00 0.00
ATOM 892	HG1	THR A	65 161.415	1.594	0.834 1.00 0.00
ATOM 893	1HG	2 THR A	65 160.857	4.539	3.315 1.00 0.00
ATOM 894	2HG	2 THR A	65 162.259	4.965	2.333 1.00 0.00
ATOM 895	ЗНG	2 THR A	65 162.268	3.482	3.288 1.00 0.00
ATOM 896	N	PHE A	66 158.560	4.385	-0.663 1.00 0.00
ATOM 897	CA	PHE A	66 158.112	4.304	-2.048 1.00 0.00
ATOM 898	С	PHE A	66 159.029	5.108	-2.965 1.00 0.00
ATOM 899	0	PHE A	66 159.115	6.331	-2.857 1.00 0.00
ATOM 900	CB	PHE A	66 156.675	4.814	-2.172 1.00 0.00
ATOM 901	CG	PHE A	66 156.029	4.474	-3.484 1.00 0.00
ATOM 902	CD1	PHE A	66 155.625	5.475	-4.354 1.00 0.00
ATOM 903	CD2	PHE A	66 155.826	3. 153	-3.849 1.00 0.00

ATOM 904	CE1	PHE A	66 155.032	5.165	-5.562 1.00 0.00
ATOM 905	CE2	PHE A	66 155.232	2.836	-5.057 1.00 0.00
ATOM 906	CZ	PHE A	66 154.834	3.843	-5.914 1.00 0.00
ATOM 907	Н	PHE A	66 158.438	5.222	-0.168 1.00 0.00
ATOM 908	HA	PHE A	66 158.143	3.268	-2.347 1.00 0.00
ATOM 909	1HB	PHE A	66 156.077	4.380	-1.385 1.00 0.00
ATOM 910	2HB	PHE A	66 156.672	5.890	-2.068 1.00 0.00
ATOM 911	HD1	PHE A	66 155.780	6.509	-4.080 1.00 0.00
ATOM 912	HD2	PHE A	66 156.137	2.364	-3.179 1.00 0.00
ATOM 913	HE1	PHE A	66 154.721	5.954	-6.231 1.00 0.00
ATOM 914	HE2	PHE A	66 155.080	1.803	-5.329 1.00 0.00
ATOM 915	HZ	PHE A	66 154.371	3.598	-6.858 1.00 0.00
ATOM 916	N	ARG A	67 159.713	4.411	-3.867 1.00 0.00
ATOM 917	CA	ARG A	67 160.624	5.059	-4.803 1.00 0.00
ATOM 918	С	ARG A	67 161.735	5.794	-4.062 1.00 0.00
ATOM 919	0	ARG A	67 162.174	6.864	-4.482 1.00 0.00
ATOM 920	CB	ARG A	67 159.858	6.036	-5.698 1.00 0.00
ATOM 921	CG	ARG A	67 158.819	5.365	-6.581 1.00 0.00
ATOM 922	CD	ARG A	67 158.307	6.310	-7.654 1.00 0.00
ATOM 923	NE	ARG A	67 159.178	6.330	-8.827 1.00 0.00
ATOM 924	CZ	ARG A	67 159.307	5.310	-9.672 1.00 0.00
ATOM 925	NH1	ARG A	67 158.624	4.189	-9.480 1.00 0.00
ATOM 926	NH2	ARG A	67 160.122	5.412	-10.714 1.00 0.00
ATOM 927	Н	ARG A	67 159.602	3.438	-3.904 1.00 0.00
ATOM 928	HA	ARG A	67 161.066	4.291	-5.420 1.00 0.00
ATOM 929	1HE	3 ARG A	67 159.357	6.759	-5.074 1.00 0.00
ATOM 930	2HE	3 ARG A	67 160.564	6.549	-6.336 1.00 0.00
ATOM 931	1H(G ARG A	67 159.266	4.504	-7.056 1.00 0.00
ATOM 932	2H0	G ARG A	67 157.989	5.048	-5.965 1.00 0.00

ATOM 933	1HD ARG A	67 157.321	5.990 -7.957 1.00 0.00
ATOM 934	2HD ARG A	67 158.250	7.306 -7.242 1.00 0.00
ATOM 935	HE ARG A	67 159.695	7.147 -8.993 1.00 0.00
ATOM 936	1HH1 ARG A	67 158.008	4.106 -8.697 1.00 0.00
ATOM 937	2HH1 ARG A	67 158.725	3.426 -10.119 1.00 0.00
ATOM 938	1HH2 ARG A	67 160.639	6.254 -10.864 1.00 0.00
ATOM 939	2HH2 ARG A	67 160.219	4.646 -11.348 1.00 0.00
ATOM 940	N GLY A	68 162.187	5.212 -2.955 1.00 0.00
ATOM 941	CA GLY A	68 163.243	5.827 -2.173 1.00 0.00
ATOM 942	C GLY A	68 162.762	7.037 -1.396 1.00 0.00
ATOM 943	O GLY A	68 163.536	7.953 -1.119 1.00 0.00
ATOM 944	H GLY A	68 161.800	4.359 -2.667 1.00 0.00
ATOM 945	1HA GLY A	68 163.632	5.098 -1.478 1.00 0.00
ATOM 946	2HA GLY A	68 164.037	6.132 -2.838 1.00 0.00
ATOM 947	N THR A	69 161.481	7.040 -1.044 1.00 0.00
ATOM 948	CA THR A	69 160.897	8.147 -0.295 1.00 0.00
ATOM 949	C THR A	69 160.046	7.632 0.861 1.00 0.00
ATOM 950	O THR A	69 158.867	7.323 0.687 1.00 0.00
ATOM 951	CB THR A	69 160.049	9.023 -1.217 1.00 0.00
ATOM 952	OG1 THR A	69 160.737	9.293 -2.425 1.00 0.00
ATOM 953	CG2 THR A	69 159.669	10.351 -0.598 1.00 0.00
ATOM 954	H THR	69 160.914	6.280 -1.294 1.00 0.00
ATOM 955	HA THR	A 69 161.706	8.738 0.105 1.00 0.00
ATOM 956	HB THR	A 69 159.135	8.498 -1.457 1.00 0.00
ATOM 957	HG1 THR	A 69 161.578	9.711 -2.228 1.00 0.00
ATOM 958	1HG2 THR	A 69 160.045	11.156 -1.213 1.00 0.00
ATOM 959	2HG2 THR	A 69 160.099	10.423 0.390 1.00 0.00
ATOM 960	3HG2 THR .	A 69 158.594	10.423 -0.530 1.00 0.00
ATOM 961	N ARG	A 70 160.651	7.542 2.041 1.00 0.00

ATOM	962	CA	ARG A	70 159.949	7.064	3.226 1.00 0.00
ATOM	963	С	ARG A	70 158.808	8.005	3.600 1.00 0.00
ATOM	964	0	ARG A	70 158.979	9.224	3.623 1.00 0.00
ATOM	965	CB	ARG A	70 160.920	6.931	4.401 1.00 0.00
ATOM	966	CG	ARG A	70 160.340	6.178	5.588 1.00 0.00
ATOM	967	CD	ARG A	70 160.741	6.817	6.909 1.00 0.00
ATOM	968	NE	ARG A	70 161.752	6.032	7.613 1.00 0.00
ATOM	969	CZ	ARG A	70 163.055	6.085	7.344 1.00 0.00
ATOM	970	NH1	ARG A	70 163.511	6.883	6.385 1.00 0.00
ATOM	971	NH2	ARG A	70 163.905	5.337	8.033 1.00 0.00
ATOM	972	H	ARG A	70 161.592	7.802	2.115 1.00 0.00
ATOM	973	HA	ARG A	70 159.538	6.091	2.999 1.00 0.00
ATOM	974	1HB	ARG A	70 161.803	6.407	4.066 1.00 0.00
ATOM	975	2HB	ARG A	70 161.203	7.920	4.732 1.00 0.00
ATOM	976	1HG	ARG A	70 159.263	6.180	5.511 1.00 0.00
ATOM	977	2HG	ARG A	70 160.703	5.159	5.566 1.00 0.00
ATOM	978	.1HD	ARG A	70 161.136	7.802	6.714 1.00 0.00
ATOM	979	2HD	ARG A	70 159.863	6.899	7.533 1.00 0.00
ATOM	980	HE	ARG A	70 161.444	5.432	8.325 1.00 0.00
ATOM	981	1HH1	ARG A	70 162.877	7.450	5.861 1.00 0.00
ATOM	982	2HH1	ARG A	70 164.491	6.919	6.190 1.00 0.00
ATOM	983	1HH2	ARG A	70 163.567	4.734	8.756 1.00 0.00
ATOM	984	2HH2	ARG A	70 164.884	5.377	7.832 1.00 0.00
ATOM	985	N	TYR A	71 157.646	7.431	3.890 1.00 0.00
ATOM	986	CA	TYR A	71 156.476	8.218	4.264 1.00 0.00
ATOM	987	С	TYR A	71 156.055	7.920	5.700 1.00 0.00
ATOM	988	0	TYR A	71 155.648	8.817	6.437 1.00 0.00
ATOM	989	CB	TYR A	71 155.316	7.932	3.309 1.00 0.00
ATOM	990	CG	TYR A	71 155.479	8.569	1.948 1.00 0.00

ATOM	991	CD1	TYR A	71	155.397	7.809	0.788	1.00	0.00
ATOM	992	CD2	TYR A	71	155.717	9.933	1.823	1.00	0.00
ATOM	993	CE1	TYR A	71	155.547	8.389	-0.457	1.00	0.00
ATOM	994	CE2	TYR A	71	155.867	10.520	0.581	1.00	0.00
ATOM	995	CZ	TYR A	71	155.781	9.745	-0.555	1.00	0.00
ATOM	996	ОН	TYR A	71	155.931	10.325	-1.793	1.00	0.00
ATOM	997	Н	TYR A	71	157.572	6.454	3.855	1.00	0.00
ATOM	998	HA	TYR A	71	156.742	9.262	4.190	1.00	0.00
ATOM	999	1HB	TYR A	71	155.232	6.864	3.166	1.00	0.00
ATOM	1000	2HB	TYR A	71	154.401	8.305	3.744	1.00	0.00
ATOM	1001	HD1	TYR A	71	155.213	6.748	0.869	1.00	0.00
ATOM	1002	HD2	TYR A	71	155.785	10.538	2.716	1.00	0.00
ATOM	1003	HE1	TYR A	71	155.480	7.781	-1.347	1.00	0.00
ATOM	1004	HE2	TYR A	71	156.051	11.581	0.506	1.00	0.00
ATOM	1005	ΗН	TYR A	71	155.460	11.161	-1.814	1.00	0.00
ATOM	1006	N	PHE A	72	156.155	6.653	6.089	1.00	0.00
ATOM	1007	CA	PHE A	72	155.784	6.235	7.436	1.00	0.00
ATOM	1008	С	PHE A	72	156.783	5.220	7.984	1.00	0.00
ATOM	1009	0	PHE A	72	157.758	4.872	7.320	1.00	0.00
ATOM	1010	CB	PHE A	72	154.378	5.635	7.437	1.00	0.00
ATOM	1011	CG	PHE A	72	154.144	4.648	6.328	1.00	0.00
ATOM	1012	CD1	PHE A	72	153.812	5.083	5.055	1.00	0.00
ATOM	1013	CD2	PHE A	72	154.258	3.287	6.559	1.00	0.00
ATOM	1014	CE1	PHE A	72	153.598	4.179	4.033	1.00	0.00
ATOM	1015	CE2	PHE A	72	154.045	2.378	5.541	1.00	0.00
ATOM	1016	CZ	PHE A	72	153.714	2.824	4.276	1.00	0.00
ATOM	1017	H	PHE A	72	156.486	5.982	5.455	1.00	0.00
ATOM	1018	HA	PHE A	72	155.795	7.110	8.068	1.00	0.00
ATOM	1019	1HB	PHE A	72	154.212	5.125	8.375	1.00	0.00

ATOM 1020 2	2HB PI	HE A	72 1	53.654	6.431	7.333 1.00 0.00
ATOM 1021 I	HD1 P	HE A	72 1	53.721	6.142	4.864 1.00 0.00
ATOM 1022	HD2 P	HE A	72 1	54.517	2.937	7.548 1.00 0.00
ATOM 1023	HE1 P	HE A	72 1	153.338	4.530	3.045 1.00 0.00
ATOM 1024	HE2 P	HE A	72	154.137	1.319	5.734 1.00 0.00
ATOM 1025	HZ F	PHE A	72	153.547	2.115	3.479 1.00 0.00
ATOM 1026	N 7	THR A	73	156.533	4.750	9.202 1.00 0.00
ATOM 1027	CA 7	THR A	73	157.409	3.775	9.840 1.00 0.00
ATOM 1028	C 7	THR A	73	156.665	2.470	10.108 1.00 0.00
ATOM 1029	0 ′	THR A	73	155.816	2.398	10.997 1.00 0.00
ATOM 1030	CB '	THR A	73	157.964	4.337	11.151 1.00 0.00
ATOM 1031	0G1	THR A	73	157.040	5.231	11.743 1.00 0.00
ATOM 1032	CG2	THR A	73	159.273	5.077	10.977 1.00 0.00
ATOM 1033	Н	THR A	73	155.738	5.066	9.682 1.00 0.00
ATOM 1034	HA	THR A	73	158.230	3.576	9.168 1.00 0.00
ATOM 1035	HB	THR A	73	158. 133	3.520	11.837 1.00 0.00
ATOM 1036	HG1	THR A	73	157.405	5.572	12.564 1.00 0.00
ATOM 1037	1HG2	THR A	. 73	159.290	5.554	10.008 1.00 0.00
ATOM 1038	2HG2	THR A	73	160.093	4.377	11.048 1.00 0.00
ATOM 1039	3HG2	THR A	73	3 159.369	5.824	11.749 1.00 0.00
ATOM 1040	N	CYS A	A 74	156.991	1.440	9.335 1.00 0.00
ATOM 1041	CA	CYS A	A 74	4 156.354	0.138	9.488 1.00 0.00
ATOM 1042	2 C	CYS	A 74	4 157.390	-0.982	9.465 1.00 0.00
ATOM 1043	3 0	CYS .	A 7	4 158.591	0.728	9.368 1.00 0.00
ATOM 1044	4 CB	CYS	A 7	4 155.323	-0.083	
ATOM 1045	5 SG	CYS	A 7	4 153.700	0.652	8.718 1.00 0.00
ATOM 1046	6 H	CYS	A 7	4 157.676	3 1.559	8.643 1.00 0.00
ATOM 104	7 HA	CYS	A 7	4 155.85	0.129	5 10.442 1.00 0.00
ATOM 104	8 1HB	CYS	A 7	4 155.69	4 0.35	7.462 1.00 0.00

ATOM 1049	2HB	CYS A	74]	55.180	-1.144	8.237 1.00 0.00
ATOM 1050	HG	CYS A	74	153.749	1.078	9.577 1.00 0.00
ATOM 1051	N	ALA A	75	156.918	-2.220	9.553 1.00 0.00
ATOM 1052	CA	ALA A	75	157.803	-3.378	9.542 1.00 0.00
ATOM 1053	С	ALA A	75	158.397	-3.602	8.156 1.00 0.00
ATOM 1054	0	ALA A	75	157.882	-3.095	7.160 1.00 0.00
ATOM 1055	CB	ALA A	75	157.053	-4.619	10.004 1.00 0.00
ATOM 1056	Н	ALA A	75	155.951	-2.359	9.628 1.00 0.00
ATOM 1057	HA	ALA A	75	158.605	-3.190	10.241 1.00 0.00
ATOM 1058	1HB	ALA A	75	157. 153	-4.723	11.074 1.00 0.00
ATOM 1059	2HB	ALA A	75	157.466	-5.490	9.518 1.00 0.00
ATOM 1060	3НВ	ALA A	75	156.008	-4.525	9.747 1.00 0.00
ATOM 1061	N	LEU A	76	159.484	-4.366	8.100 1.00 0.00
ATOM 1062	CA	LEU A	76	160.148	-4.658	6.836 1.00 0.00
ATOM 1063	С	LEU A	76	159.378	-5.712	6.046 1.00 0.00
ATOM 1064	0	LEU A	76	158.795	-6.631	6.623 1.00 0.00
ATOM 1065	CB	LEU A	76	161.579	-5.137	7.087 1.00 0.00
ATOM 1066	CG	LEU A	A 76	6 162.627	7 -4.025	7.176 1.00 0.00
ATOM 1067	CD	LEU A	A 76	6 163.72	8 -4.406	8.153 1.00 0.00
ATOM 1068	S CD	2 LEU	A 70	6 163.20	8 -3.731	5.802 1.00 0.00
ATOM 1069	Н	LEU	A 7	6 159.84	6 -4.742	8.929 1.00 0.00
ATOM 1070		LEU	A 7	6 160.17	9 -3.745	6.259 1.00 0.00
ATOM 107					3 -5.692	
ATOM 107	2 2H	B LEU	A 7	6 161.86	51 -5.800	6.284 1.00 0.00
ATOM 107	3 HG	LEU	A 7	6 162.15	55 -3.12	7.541 1.00 0.00
ATOM 107	4 1F	D1 LEU	A 7	6 164.66	61 -3.96	7.834 1.00 0.00
ATOM 107	5 2F	D1 LEU	A 7	6 163.82	28 -5.48	8.180 1.00 0.00
				76 163.4	76 –4.04	4 9.139 1.00 0.00
					35 –4.27	

ATOM 1078 2HD2 L	EU A 76 163.395	-2.671	5.708 1.00 0.00
ATOM 1079 3HD2 L	EU A 76 162.508	-4.041	5.040 1.00 0.00
ATOM 1080 N L	YS A 77 159.379	-5.572	4.724 1.00 0.00
ATOM 1081 CA I	YS A 77 158.681	-6.513	3.857 1.00 0.00
ATOM 1082 C I	LYS A 77 157.188	-6.536	4.170 1.00 0.00
ATOM 1083 0	LYS A 77 156.545	-7.584	4.103 1.00 0.00
ATOM 1084 CB	LYS A 77 159.268	-7.917	4.011 1.00 0.00
ATOM 1085 CG	LYS A 77 160.742	-8.002	3.648 1.00 0.00
ATOM 1086 CD	LYS A 77 160.936	-8.190	2.152 1.00 0.00
ATOM 1087 CE	LYS A 77 162.179	-7.470	1.656 1.00 0.00
ATOM 1088 NZ	LYS A 77 162.702	-8.067	0.396 1.00 0.00
ATOM 1089 H	LYS A 77 159.861	-4.819	4.324 1.00 0.00
ATOM 1090 HA	LYS A 77 158.816	-6.185	2.837 1.00 0.00
ATOM 1091 1HB	LYS A 77 159.154	-8.231	5.038 1.00 0.00
ATOM 1092 2HB	LYS A 77 158.722	-8.595	3.373 1.00 0.00
ATOM 1093 1HG	LYS A 77 161.232	-7.089	3.952 1.00 0.00
ATOM 1094 2HG	LYS A 77 161.183	8 -8.840	4.168 1.00 0.00
ATOM 1095 1HD	LYS A 77 161.030	6 -9.245	1.942 1.00 0.00
ATOM 1096 2HD	LYS A 77 160.07	3 -7.799	1.634 1.00 0.00
ATOM 1097 1HE	LYS A 77 161.93	2 -6.434	1.478 1.00 0.00
ATOM 1098 2HE	LYS A 77 162.94	3 -7.531	2.418 1.00 0.00
ATOM 1099 1HZ	LYS A 77 162.60	8 -9.102	0.425 1.00 0.00
ATOM 1100 2HZ	LYS A 77 163.70	6 -7.824	0.274 1.00 0.00
ATOM 1101 3HZ	LYS A 77 162.16	8 -7.703	-0.419 1.00 0.00
ATOM 1102 N	LYS A 78 156.64	43 –5.373	4.513 1.00 0.00
ATOM 1103 CA	LYS A 78 155.22	24 –5.259	4.837 1.00 0.00
ATOM 1104 C	LYS A 78 154.6	86 -3.886	4.449 1.00 0.00
ATOM 1105 0	LYS A 78 153.8	63 -3.308	5.158 1.00 0.00
ATOM 1106 CB	LYS A 78 155.0	00 -5.505	6.330 1.00 0.00